

LIFE

PART II

THE WORLD WE LIVE IN: MIRACLE OF THE SEA



20 CENTS

FEBRUARY 9, 1953



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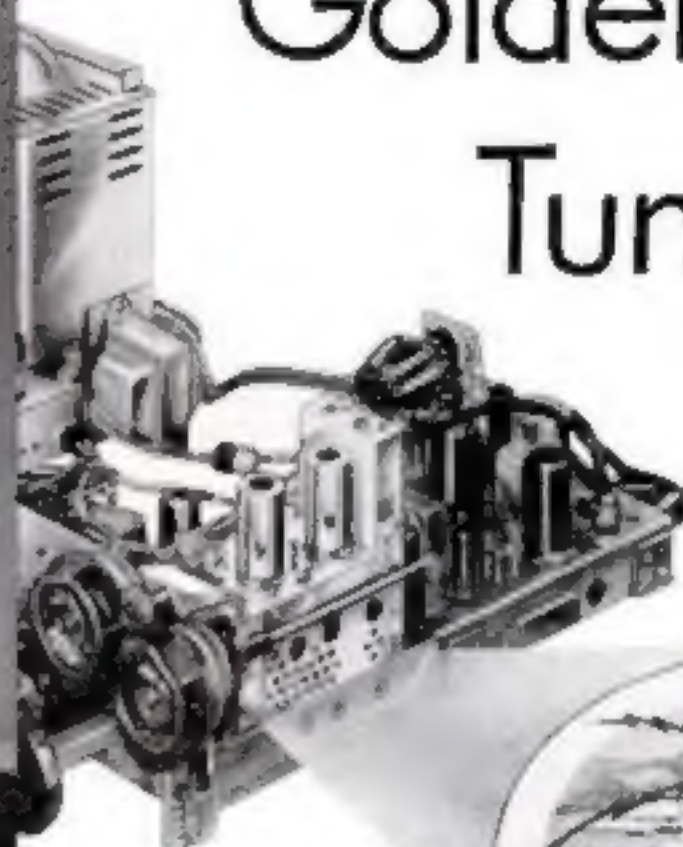


MAHOGANY VENEER 21-INCH CONSOLE—the Philco 2289. Full 245 square inch screen—20 square inches larger than many so-called 21" sets. UHF-VHF Built-In Aerial. Cabinet on casters.

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with the

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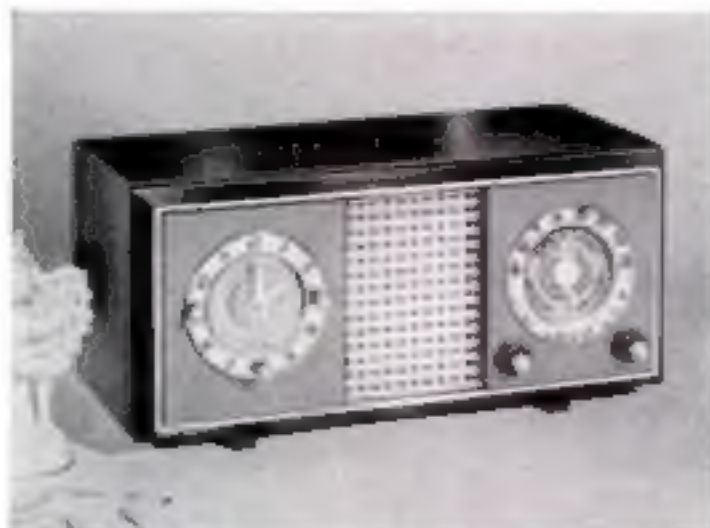
THERE'S no question today about the unequalled public acclaim for Philco "Golden Grid" television. All over America, reports from dealers and owners alike confirm that it is *first* among all TV sets for sensitivity, freedom from noise, and sheer power. Everywhere, its High Fidelity picture reproduction is the sensation of the industry.

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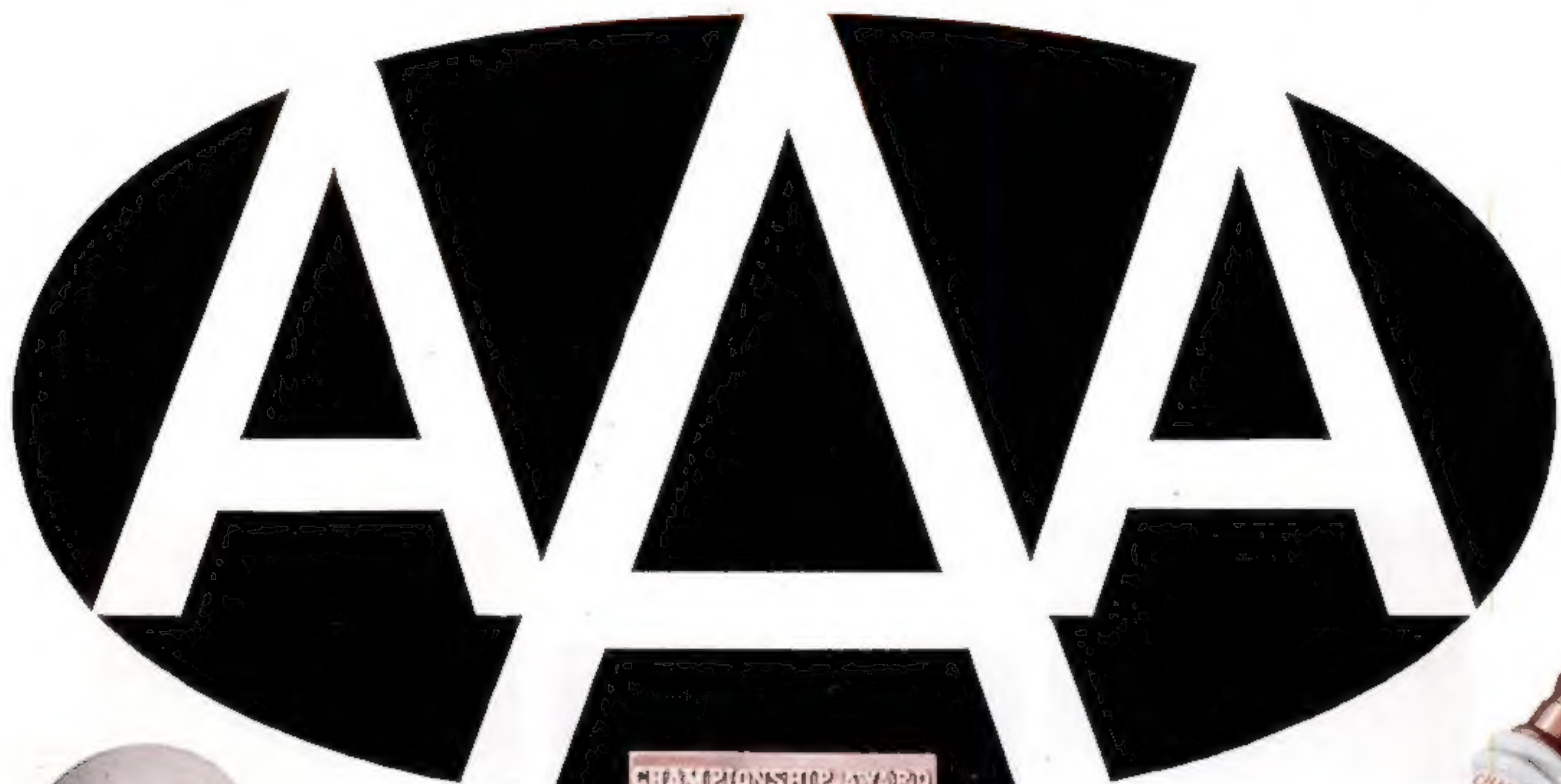


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Chuck Stevenson, 1952
AAA National Racing
Champion and winner of
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1952



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The spark plug chosen by Chuck Stevenson—

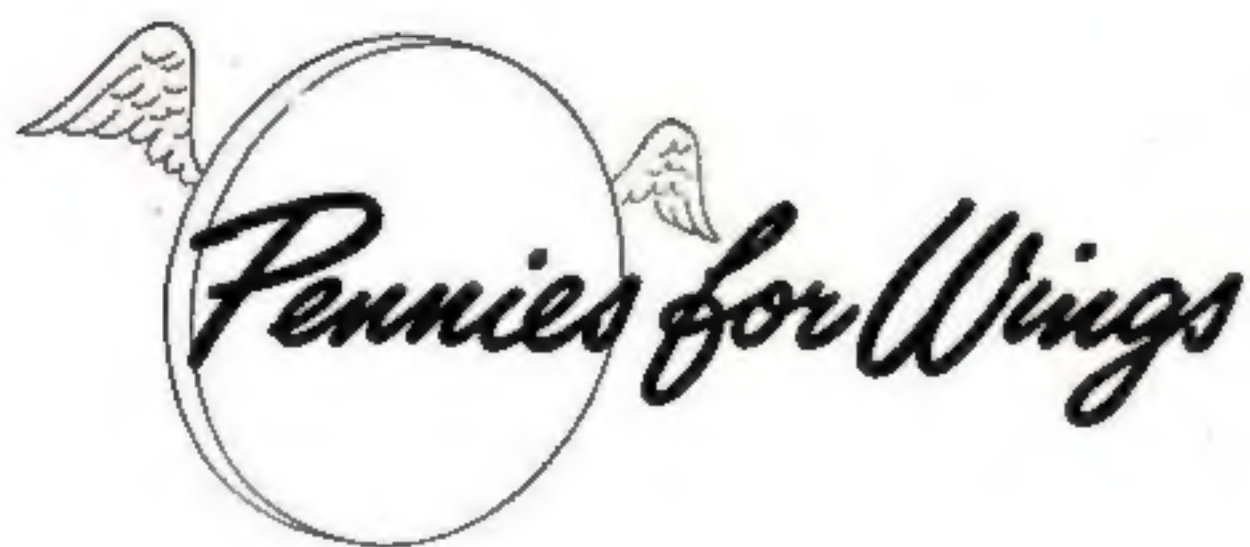
and by nine of the first ten AAA drivers—must be the best—and that means Champion! This preference by those whose lives and livelihood depend on engine performance means that when you pick Champion Spark Plugs you are buying finer performance, economy and dependability. Whatever make or model car you drive—it will run better with Champions!

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This One



97ZW-LUD-CN5Y



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Sure and Swift—that's 'CHAP STICK'. Almost at once that unmistakable relief—that soothing, soothing comfort. Millions give 'CHAP STICK' first place for dry, weather-beaten lips—because it's specially medicated—easy to apply—more lasting in results. Best of all (very important when lips are cracked and sore) 'CHAP STICK' is the only Antiseptic Lip Balm.

• For cracked, chapped, weather-sore hands, use 'CHAP-ANS', the man's hand cream.



LETTERS TO THE EDITORS

JAMAICA BOYHOOD

Sirs:

I left Jamaica at an early age 33 years ago and I find the picture poem of Mr. Kirkland's "Jamaica Boyhood: A Memory" (LIFE, Jan. 19) the most moving thing I have seen or read of that island in all these years.

God bless you, Marse Wallace. The tears ran down my face, too.

NORRIS B. CLARKE

Hazel Park, Mich.

Sirs:

I read it over and over again and then cried over it, for it is the truest thing I've ever read about my beautiful Jamaica. . . .

CICELY KNIBB ALLEN

Raleigh, N.C.

Sirs:

I almost fell over when I saw Mr. Kirkland's pictures. I was in that hurricane in 1903.

RICHARD J. HOPKINS

Los Gatos, Calif.

Sirs:

I could feel myself actually walking beside Mr. Kirkland. I've read it three times.

V. M. JACOBELLI

Ligonier, Pa.

Sirs:

Possibly the best work in LIFE for several years. It contains one of the finest sentences I've ever read:

"And while the boy played I remembered things he had no way of knowing."

IVAN SHAPIRO

Baltimore, Md.

Sirs:

. . . After almost four decades of seeing society photos of peereases tanning their painted toenails and plutocrats pouring planter's punch, I was almost afraid my memories were colored by a child's imagination. Now I know they were not!

MRS. KATHERINE BELL KINSMAN

Montreal, Canada

Sirs:

What a joy to retravel paths in one's life, to meet an old friend on a back road and to climax the journey by once again looking into a loving, kind face and softly speak those words of understanding—"Evening, Charlotte."

EDWARD J. DEKORT

San Francisco, Calif.

Sirs:

As Elsie, the last child "brought by the ship" and perhaps somewhat prejudiced, I want you to know I thoroughly enjoyed "Jamaica Boyhood."

ELSIE KIRKLAND FAY

Butler, N.J.

Sirs:

It is gratifying to see a photographer capable of producing so effective and human a piece of literature.

BRUCE DOWNES

Editor

Photography Magazine
New York, N.Y.

Sirs:

Most of us who spent our youth in Jamaica will be grateful for your recapturing so much of its carefree life and lush scenery. But Mr. Kirkland is wrong about the mongoose. It was imported not to destroy rats but snakes. Now the snakes have gone and rats

still abound. Unfortunately, after the mongoose cleared the snakes it turned on the chickens. If today the Jamaica farmer raises few chickens it's because he can't cope with the mongoose.

T. A. DALEY

Pine Bluff, Ark.

Sirs:

"Asano," the first word of Mr. Kirkland's alphabet—whose meaning he wondered about—is a Jamaican corruption of *asno*, the Spanish word for donkey or jackass. No doubt the word came to Jamaica from Spanish settlements on other islands.

KENNETH CULBERTSON

Chicago, Ill.

Sirs:

To continue the "Jamaica alphabet" where Mr. Kirkland broke off:

P is for patoo [the owl],
at night he come out;
Q is for quatee [3¢ piece],
I beg you one please;
R is for rata [rat],
him tiptoe 'pon cheese;
S is for snake,
him lib in the grass;
T is for toad,
him too forrid and fast;
U is for uncle,
say howdee for me;
V is for virvine [herb],
him boyle a nice tea;
W is for 'ooman,
him marry with man;
X is de mark,
you make wid de han';
Y is de crossroad,
dere oder folk met;
Z is for zebedee,
mending his net.

ELEANOR HOWARD

Malibu, Calif.

SHOW-OFF PANTS

Sirs:

Struck by "Show-off Pants" (LIFE, Jan. 19), Roma Uhlenhake went to a dance gown in tulle and upended to reveal her "show-off" blue jeans for warding off Dayton's 20° cold.

R. A. MILLER

Dayton, Ohio



SHOW-OFF BLUE JEANS

SAINT FRANCIS XAVIER

Sirs:

"A Saint Is Displayed" (LIFE, Jan. 19) is thoroughly nauseating. . . .

This is the 20th Century! We no longer look with sympathy on the kissing of corpses. We give bodies decent burial and forget about them, confident that their immortal souls will go to their just reward. . . .

You must realize that in reporting these things with a straight face you are nudging the world towards the negation of everything Christianity means.

FRANK FUKIT

Mobile, Ala.

Sirs:

Like something out of the Dark Ages. . . .

DANIEL ANDREW DUNN

Elmira, N.Y.

Sirs:

Such practices are rare and localized (thank God!) but do much to foster the notion that Catholics in general worship "things." . . . I am a Catholic in good standing, but I would not walk around the block to view, let alone touch, this pitiful decomposition that was once Saint Francis Xavier. To paraphrase: "He is risen, he is not there."

MRS. HAROLD R. HERSHEY

Olympia, Wash.

Sirs:

Saint Francis Xavier is dead. Any miraculous powers he may have possessed are with his soul, not with his lifeless shell. Such blind faith must make God shudder. . . . The exhibition of parts of the bodies of saints to stir religious feeling amounts to idolatry, an act condemned under the First Commandment.

ERIC W. HUGHES JR.

Manaheld, Pa.

• Roman Catholics distinguish between the worship which is restricted to God alone, and veneration of saintly relics, which is an indirect appeal to God through physical symbols of saintly souls in Heaven.—ED.

MT. EVEREST

Sirs:

The beauty of Mt. Everest ("Swiss Climbers Get Unparalleled View of Mt. Everest . . . But Cannot Conquer It," LIFE, Jan. 19) is beyond any words I can imagine.

E. N. MYCROFT

San Francisco, Calif.

Sirs:

One of the finest shots I have come across in 10 years of collecting pictures of Mt. Everest.

LIEUT. ROBERT S. MACKINNON

Fort Monmouth, N.J.

Sirs:

Do you mean to say that in all their blustery, frigid crisscrossing of the slopes of Mt. Everest those Swiss mountaineers never even once saw the "Abominable Snowman"?

LYDIA TODD

New York, N.Y.

• Not once. But some native porters on last spring's Swiss expedition reported seeing an Abominable Snowman (LIFE, Dec. 31, 1951). It fled when the porters shouted at it.—ED.

CONTINUED ON PAGE 1

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*Test Report E 4991A, 6-12-52 by United States Testing Company . . . made with utility-size units, using one each of 5 leading electric ranges.

**Manufacturer's recommended retail price.



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"SPEED COOKING"
RANGES



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GENERAL  ELECTRIC

LETTERS TO THE EDITORS CONTINUED

REDS REFORM LANDLORD

Sirs:

With a mixed feeling of gladness and sickness I saw your pictures ("Red China Reforms a 2/3-Acre Landlord," *LIFE*, Jan. 19). I was glad because you were able to obtain this solid evidence of Communist crime. I feel terribly sick because I am a Chinese. I wonder how many "liberals" still believe the fairy tale of "agrarian reformers."

L. H. CHEN

St. Louis, Mo.

HUMPHREY AND WILSON

Sirs:

I was impressed by George Humphrey's acumen and his achievements ("Top Managers in 'Business Cabinet,'" *LIFE*, Jan. 19). My respect was dissipated when I read his statement regarding Hemingway's *The Old Man and the Sea*: "Why would anybody be interested in some old man who was a failure and never amounted to anything anyway?"

HILDA POLLOCK ABRAHAM
Duarte, Calif.

FORD FAMILY

Sirs:

"Ford Men and Women Sit for Portraits" (*LIFE*, Jan. 19) is another exposé that women face issues roundabout: not one female Ford faces your camera directly; each male undeviatingly gazes into its eye. I resent it.

SYLVIA ABRAHAMSON
Los Angeles, Calif.

Sirs:

I am not a member of the Wyandotte Chemical family. My father is Frederick Clifford Ford, an investment banker and partner of Watling, Lerehen and Company.

WALTER B. FORD II
Detroit, Mich.

EDITORIAL

Sirs:

Moved by "New Government, New Spirit" (*LIFE*, Jan. 19) I applaud a "redefinition" of the American spirit. The "spirit" can use some definition. Yours is inspiring. This country can do best by doing, by believing it can be done. Where history says it can't be done, I say to hell with history. Let's try it! Editorials like this give us more guts to do the job.

LIEUT. E. K. HANDLAN, USNR
Coronado, Calif.

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Sirs:

No doubt any new release of an "old spirit" will have effects on the world. But we cannot expect the same effects it had in the time of Jefferson and Jackson. It has become perverted by the cataclysmic changes it effected. It has become selfish materialism instead of a force dedicated to freedom.

DON D. ETTER

New Haven, Conn.

Sirs:

LIFE's position is contradictory. Not long ago you praised the moderate conservative thinking of John Adams and you called attention to the sense of limitations which Reinhold Niebuhr preaches. Now you vigorously attack the application of these ideas to current policy. By urging a "dynamic" policy you contribute to expectation of sudden improvement in the cold war. But seldom in our history have our aims and actions been so vulnerable to defeats we cannot avoid. In a crisis where caution (to preserve Western civilization and defend freedom) is so important, you urge the new administration to be ever bolder.

JOSEPH LOSOS

Cambridge, Mass.

● John Adams' conservatism did not make him cautious toward the cause of freedom. Niebuhr's "sense of limitations" does not make him a quietist toward right and wrong. A "dynamic policy" may or may not bring victory in the cold war, but at least it is a policy which aspires to victory and makes it possible.—ED.

MRS. VANDERBILT

Sirs:

I am not divorcing Mr. Cornelius Vanderbilt as you state ("The Queenly Kingfisher," *LIFE*, Jan. 19) but am suing for support.

MRS. CORNELIUS VANDERBILT JR.
Beverly Hills, Calif.

● Mrs. Vanderbilt's suit for separate maintenance has been held up until a New York court decides whether it has jurisdiction.—ED.

Sirs:

The late Mrs. Vanderbilt's husband (Brig. General Cornelius Vanderbilt III) was the grandson of William H. Vanderbilt, not the son as you report. His father (Cornelius II), displeased by his marriage, cut him off with a paltry \$1.5 million. Paltry, that is, considering his \$57 million estate (not \$26 million as you report). However, his brother Alfred, who inherited the bulk of the estate, gave him \$6 million, making his share equal to those of his sisters and other brother.

RICHARD S. COYLE

Reading, Pa.

STEVENSON PARTY

Sirs:

I hate to disillusion those kids ("Life Goes to a Party for Adlai's Sons," *LIFE*, Jan. 19) who thought they were dancing the Mexican Hat Dance. It wasn't.

ELDRED J. ROBINSON

Dallas, Texas

● It was *La Raspa*, a polka-like step done without hat.—ED.

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SPEAKING OF PICTURES . . .

Amateur's remarkable photograph of a jet plane exploding turns up in a British

Nearly 120,000 British spectators at the Farnborough air show saw the faster-than-sound jet plane rip apart in mid-air, watched horrified as the engines and cockpit came hurtling down. One engine hit the crowd and killed 30 people (*LIFE*, Sept. 22). The cockpit, landing at the edge of the field with pilot and engineer

inside, burst into pieces so quickly that almost nobody saw what really happened.

But an amateur photographer named H. H. J. Orr, standing his ground nearby while others ducked, aimed his camera at the crash and recorded the explosion. When he saw what he had on film, Orr rushed it to crash investigators,

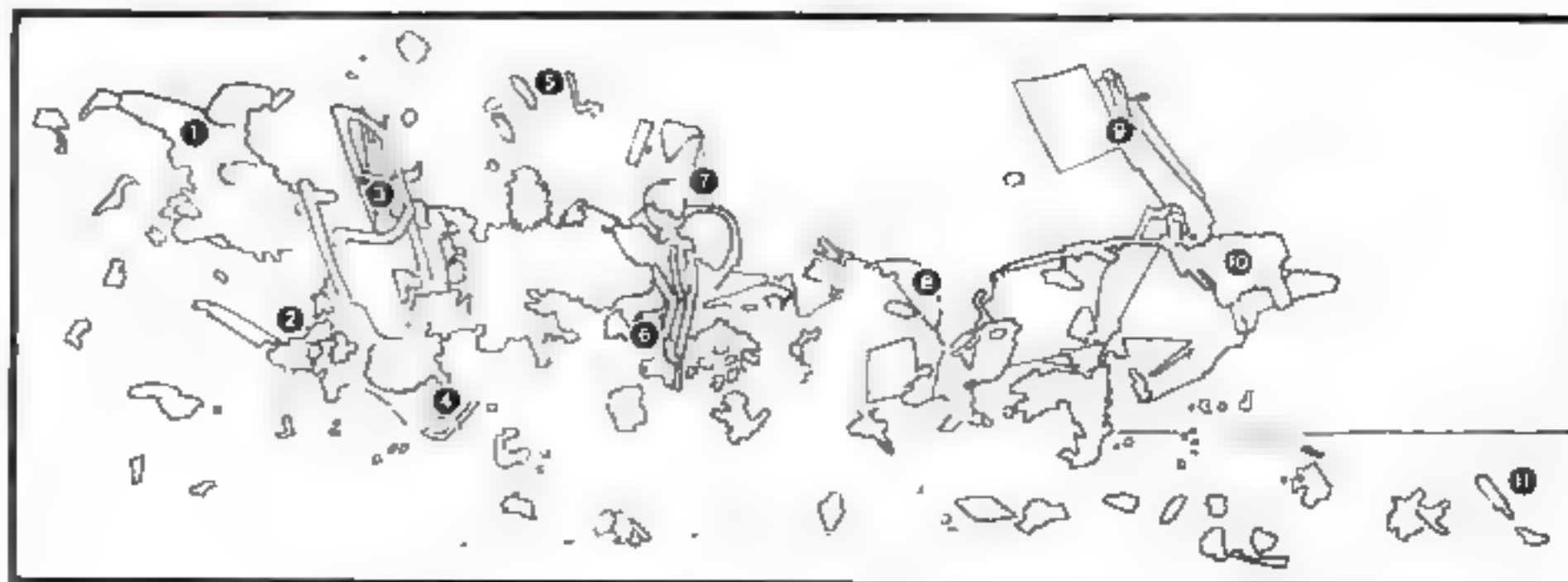
who kept it for study until last week. Orr submitted it to the London *Daily Mail* where it won the monthly picture contest of £200.

Some of the grim details Orr's split-second shutterwork seems to reveal (*see diagram, right*) are: **1**—body of Pilot John Derry or Engineer Tony Richards, feet in air, **2**—ejection seat



contest four months later

with runway rails, 3—metal and plastic cockpit canopy, 4—part of controls, 5—a shoe, 6—part of seat, 7—piece of canopy, 8—cockpit door and piece of fuselage, 9—rear metal section of canopy, 10—plane's center spar, 11—fire extinguisher or oxygen bottle. Exact cause of the crash is still a classified secret.



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Moscow: Piero Sapor, JOHANNESBURG:
Alexander Campbell, MIDDLE EAST: James
Bill, New Delhi: James Burke, SINGA-
PORE: John Downing, HONG KONG: Robert
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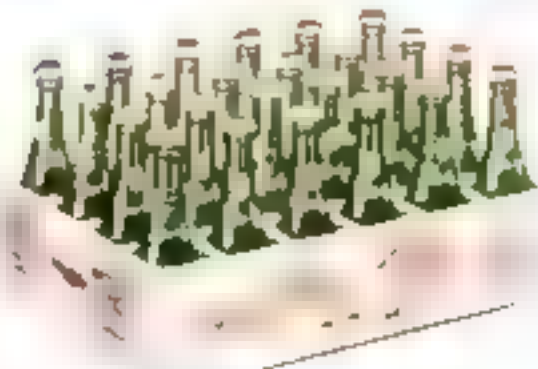
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FRITZ GORO

HOW THE SCHOLARS DROPPED IN ON DAVY JONES

Each issue of LIFE contains a lot of pretty positive statements, and we have been asked, not always jokingly, "Do you guys ever admit you just don't know something?" There are plenty of things we don't know but, as journalists should, we know where to learn a lot of them. We had to go to a great many places and talk with a great many eminent scientists to bring together the facts for "The Miracle of the Sea," second in LIFE's series, "The World We Live In," which started in the Dec. 8 issue with an article called "The Earth Is Born."

The pursuit of sea knowledge led early to Dr. Maurice Ewing, director of the Lamont Geological Laboratory of Columbia University. Dr. Ewing, who made recent news with his discovery of the Great Mid-Atlantic channel (LIFE, Oct. 27), gave counsel on scale and colors for Artist James Lewicki, who has portrayed the look of the ocean floor in the "gatefold" on pages 62-67.

Just back from new studies of another ocean, the Pacific, Dr. Roger Revelle, director of the University of California Scripps Institution of Oceanography, contributed his latest knowledge on submarine flattop mounts, the great trenches and shelves in the Pacific. Dr. Columbus Iselin,

pioneer student of the Gulf Stream, as well as his staff at Woods Hole Oceanographic Institution in Massachusetts, spoke authoritatively on the habits, speed and meanderings of the Stream.

These and many other top scientists, some of whom are acknowledged on page 80, went out of their way to help build "The Miracle of the Sea." LIFE's photographers went well out of their way too to round out the story. Photographer N. R. Farbman journeyed to the lonely Orkney Islands north of Scotland to picture the sculpture wrought by the sea on page 76. Fritz Goro flew for hours with Navy blimps before he found a place where a well-defined edge of the Stream could be indicated with dye and smoke bombs (p. 68).

One representative of the magazine had to be content, however, with exploding a legend. Sigmund Seland of Norway flew to the arctic circle in search of the giant ship-swallowing whirlpool which formed the basis for Edgar Allen Poe's *A Descent into the Maelstrom*. He found plenty of circular currents but maelstroms apparently exist in full fury only in fiction. Our sea story is not fiction but the scholarly knowledge of those who know Davy Jones best.

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GIVING THEIR TESTIMONY BEFORE THE CRIME COMMISSION, McCORMACK (LEFT) AND RYAN ARE SKETCHED ON WITNESS STAND BY ARTIST WILLIAM SHARP

MR. BIG BECOMES LESS MYSTERIOUS

For sheer unpleasantness the picture the State Crime Commission has drawn of New York's waterfront is hard to beat. Last week uneasy witnesses were still describing dockside society where corruption was the rule, where \$18 million in goods was stolen from piers, where a third of the controlling International Longshoremen's union officials had police records and where a gang's death sentence followed a victim even to jail. To wind things up, the commission called two experts. One was Joe Ryan, president of the I.L.A. The other—William J. McCormack, known as "Mr. Big" and considered the mystery man of the waterfront.

Like Ryan, McCormack knows the ropes. A hefty giant of 63, he has 50 years on the docks, starting penniless in the brawling business and forcing his way to enormous power, wealth and vast waterfront influence. He has numbered among his friends not only Joe Ryan but influential politicians from Al Smith to Impellitteri. When they took the stand, however, experts Ryan and McCormack surprised the commission and

an incredulous public. Ryan, in statements most people found difficult to swallow, said he had no idea crime was so rampant on the docks and would look right into it. McCormack's testimony sounded equally naive and unconvincing. He had done a report on the docks in 1951 saying the fault lay mainly in rates and engineering and that crime was a dream of writers' "warped minds." Since then, he added, he had not been keeping up with the situation. But the commission turned up some facts. Ryan, it found, had been spending thousands of dollars of his union's "anti-communist" fund on himself. (He produced no records to prove he had paid it back.) McCormack was unable to account for almost \$1 million of his companies' expenditures. He denied an accusation by a former magistrate that, as a state license commissioner in 1923, he had shaken Boxing Promoter Tex Rickard down for \$81,500. The hearings left much of McCormack's dealings still in the realm of mystery, but these photographs by LIFE's Cornell Capa reveal for the first time something of the man himself.



ON ONE OF HIS LIGHTERS tied up at a dock in the North River, William McCormack looks over a load of incoming freight cars which contain perishable fruits and vegetables which were shipped by rail from Florida and from California.

ON ONE OF HIS PIERS McCormack makes a night inspection of a shipment of perishables. He operates nine piers and his Penn Stevedoring Company since the war has handled all Pennsylvania Railroad perishables shipped into the city.



A CONCRETE MAGNATE, McCormack stands before skyline of concrete helped build, including (right to left) Chrysler, New York Central, & U.N. buildings.



A LABOR EXPERT, McCormack has talk with Transport Workers' President Mike Quill (right), who called on Mr. Big to keep him posted on city bus strike.



A YACHTSMAN, McCormack goes for ride in 51-foot cruiser called *The Duke* which he has given to his son (left) Bill Jr., 28, head of his shipping division.



MCCORMACK PLAYS WITH GRANDSON RODNEY

A MAN OF MEANS AND MANNERS

"No, I'm not helpless," was Mr. Big's answer to a series of her questions, and a look of his calm and persistent eyes to prove his point. McCormack began as a "wagon boy" on the West Side docks, delivering grocers' produce. Now, as head of Penn State Engineering, he is one of the most important industrial leaders in the U.S. On top of that he is in the concrete business, operates New York's biggest chain of independent filling stations and heads an oil business which last year sold the city \$2.25 million of its \$2.5 million purchases of gas and oil. He also owns a contracting company, a large company, a dredging company, a sand-and-gravel company and runs an Illinois race track. He is a multimillionaire, with a sophisticated knowledge of an expert in labor relations and a strike mediator for three New York mayors. On the waterfront, where flash strikes are common, McCormack's companies have been struck only once. He is paternalistic toward his men, powerful in politics—and wields an enormous influence over Joe Ryan. All this has given him an air of success and well-being which he carries with him on the waterfront and at home, where at a family lunch he is served by his butler and his maid.



AT OFFICE AND AT HOME: Above, McCormack expends a penny on the waterfront would be better off if a separate dock area were built, could be appointed. Opposite, in his penthouse, he presides over luncheon with his wife (back to camera), son (right), daughter, her husband and their four children.



JERUSALEM THIS CITY NEEDS U.N. GOVERNMENT

Friends of the U.N. who seek to bolster its world prestige might well conclude that the place to start is California, where Los Angeles has barred some U.N. publications. This conclusion would be wrong. Of all spots on earth, the U.N.'s stock is lowest not in California but in the Middle East; not in Los Angeles but in Jerusalem.

It is strange how little hold the grim plight of Christendom's holiest city has on the American conscience. Three times has the U.N. General Assembly affirmed its solution to that plight; each time the U.N. has been defied by the nations in occupation. This defiance has scarcely aroused the notice of the West, let alone its indignation. But throughout the Moslem world it is noticed and held as proof of U.N. impotence and Western hypocrisy.

The defiant powers are Israel and Jordan. Ever since the Palestine war, which ended with neither Arab nor Jew in full possession of Jerusalem, the city has been split, "a poor man's Berlin." Its streets are deadened with dragon's teeth and barbed wire. Its economy is stagnant. Its shrines, including Christ's Sepulcher, are visited by less than a tenth the pilgrims that used to come. The Wailing Wall, in the Arab-held Old City, is out of bounds for Jews. On one side of the line is the inflated, ration-book economy of Israel, hungry for food. On the other are the money-poor Arabs, with food for sale and no buyers. Smugglers are shot.

The U.N. plan is to internationalize the whole Jerusalem area. A statute for combined U.N.-local government has been drafted. The only real opponents of this plan are Israel and Jordan; the only rational argument against implementing it is that their opposition makes it "unrealistic." Thus Premier David Ben-Gurion of Israel declares that Jerusalem is his country's capital, come what may; he has moved most of his ministries into his part of the city and is building a new house there for Parliament. Jordan's Arab Legion is equally tenacious of the Old City, whose 80,000 residents consider themselves captives.

This messy and dangerous situation is the legacy of the world's failure to liquidate the Palestine war. The U.S. share

in that failure is a major one. The Arabs, thanks to Truman's pro-Zionist policy, have lost all faith in U.S. justice. Fresh evidence came to them last December. A proposed U.N. resolution, under the guise of urging direct Jordan-Israeli negotiations, would in effect have scuttled the internationalization plan. On Truman's orders the U.S. backed this resolution. It was defeated only because the Arabs found two unfamiliar allies: Latin America, where Christian support for internationalization is taken seriously; and the Soviet bloc, U.S. influence in the Arab world having sunk to virtually nil, the Soviets are filling the vacuum.

No amount of Point Four money can change this situation. The Arab world wants justice first. In this case justice would be fruitful. For if the U.N. internationalization plan could be implemented, both Israel and the Arab world would enormously benefit—as would Jerusalem itself—from mutual trade through the free international zone.

The major reason Christian leaders favor internationalization is that worship would be freer and happier. But some of them also envision a reborn city that could become a world religious capital. In it the three faiths to which Jerusalem is holy—Christian, Moslem and Hebrew—would have a free world crossroads in which to study and practice mutual respect and the bases of unity.

Is this hopelessly unrealistic? Israel is dependent on U.S. aid, Jordan on British; Anglo-American insistence could make internationalization real. Except for Israel and Jordan, whose chief sacrifice would be national pride, the whole Near East would cheer.

To internationalize Jerusalem would not settle all the intricate problems of the explosive Middle East. In particular the festering problem of the Arab refugees (*LIFE*, Sept. 17 and Nov. 12, 1951) demands further action. But a U.S. move to internationalize would be a moral act that can be done now. A crime against the city and an affront to the U.N. would be set right. The U.S. would have at least laid the basis for a new and more successful Middle Eastern policy. Its dangers are less than those we face now.

NEW YORK THIS CITY NEEDS EFFICIENT GOVERNMENT

Last week the Episcopal Bishop of New York appealed to the city's religious leaders of all faiths to urge the citizenry to take action against civic corruption and inefficiency. Protestant, Jewish and Catholic clergy—including Cardinal Spellman—saluted Bishop Donegan's call to political arms and promised to help. Perhaps a cleansing wave will hit New York's City Hall in the municipal elections next November. City Hall could certainly use a cleansing.

The government of New York City, which has a population of eight million and is the capital of the U.N., is in a bad way. Though its taxes increase yearly, it sinks deeper and deeper into debt. Its outmoded and overcrowded transportation system, most of which it owns, is a financial nightmare. Some of its public school buildings date back to the 1800s; patients are bedded in the corridors of some of its hospitals; corruption has been exposed in its police department, and the general morale of its other civil service departments is low. As the State Crime Commission has recently shown, the Port of New York—one of the principal sources of the city's wealth—has become a cesspool of racketeering.

New York has been deteriorating since 1946 when the increasingly notorious O'Dwyer took office. Like Jimmy Walker

before him, Bill had a kind of spurious charm, which fooled a lot of New Yorkers for a while; but Norman Thomas at an indignation meeting last week declared that "New York reached a lower ebb of public morality and decency under William O'Dwyer than under Jimmy Walker." The present mayor, Vincent Impellitteri, does not have even spurious charm to recommend him. What New York has been suffering from for the last half dozen years is government by slob.

Lincoln Steffens to the contrary, no American city really needs to be permanently corrupt. It is possible not only to throw the rascals out, but to install a government that can run a city efficiently and economically. Cincinnati, with its city manager system, showed the way more than a quarter-century ago. Des Moines, Milwaukee, Bridgeport, Conn. and, most recently and belatedly, Philadelphia are other notable examples of American cities that reached political adulthood. There is no Republican way of putting out a fire or Democratic method of garbage disposal. Running a city is a management problem; the function of political rivalries should be to keep the management clean. As soon as this is realized by the citizens of any community, municipal corruption can be made to disappear.



THE PRESIDENT SPEEDS A PARTING GUEST

It was far too chilly in Washington last Friday morning to stand on much ceremony and besides President Eisenhower was nursing his first presidential cold. Wrapped in overcoat, muffler and hat, he stepped outside on the north portico of the White House, gave a goodby wave and quip (not caught by newsmen) to Mutual Security Director Harold Stassen, who had come to breakfast with Secretary of State Dulles, and then ducked

back in. Dulles and Stassen were leaving on a 10-day fact-finding tour of Europe. There, in advance of their coming, a brisk debate had started over Dulles' first foreign policy speech. The secretary had bluntly said that the U. S. was disappointed in Europe's progress toward mutual defense and that, if Britain, France and Germany preferred to go their own separate ways, the U. S. might have to rethink its policy toward Europe.

BRITISH CRY 'MURDER' AS A BOY IS HANGED

People and politicians protest the execution of 19-year-old for death of a policeman he did not kill



BENTLEY, WHO DID NOT MURDER



CRAIG, WHO MURDERED BUT LIVED

On the roof of a candy warehouse in Croydon, an outlying London district, last November police cornered two youths. One officer grappled with Derek Bentley, 19, who had a knife and spiked knuckleduster, and subdued him. But Christopher Craig, hiding behind a chimney, shouted, "Come on, you coppers—I'm only 16." Bentley yelled, "Let him have it, Chris," and Craig began to fire a .45 pistol. One shot wounded the officer holding Bentley. Another killed Police Constable Sidney George Miles (below in newspaper) just as he reached the roof. Craig then leaped 25



feet to the street but was hurt and arrested. The two boys came to trial in December in the Old Bailey. The jury found both boys guilty, recommending mercy for Bentley because he had not actually done the shooting and was physically under arrest at the moment. But the judge, Lord Chief Justice Goddard, grimly donned the black cap of the death sentence, and condemned the youth to hang. Then he sentenced Craig, the killer, to be held in jail during "the pleasure of Her Majesty," which could mean life. Under the law, said the judge, 16-year-old Craig was too young to hang. Bentley, having joined in a crime, was equally guilty of the murder that came of it. Up from people and Parliament went a cry of

200 M.P.s SIGN PLEA —'DON'T HANG HIM'

outraged protest. Banner headlines reported that members of Parliament, including the Labor Party's leftist rebel Nye Bevan, were petitioning the Crown for mercy. Telegrams swamped the House of Commons. Others went to Queen Elizabeth and to the Duke of Edinburgh and even Prime Minister Churchill, at sea on the *Queen Mary*. The defense founded its case for mercy on the claim that the "three-quarter witted" Bentley had

10p.m.—BENTLEY MUST HANG Sir David's last word

been led into trouble by the younger Craig. Even Craig's mother tried to help by going with Bentley's parents to support their plea. The appeals piled up on Home Secretary Sir David Maxwell Fyfe, but he could ignore neither the law nor the fact that this had been the murder of a policeman, whose person, because the police of England go unarmed, is regarded as



BENTLEY'S PARENTS (LEFT) AND CRAIG'S MOTHER MOURN AS APPEAL FAILS

sacrosanct. He denied the appeals, one by one. It was evident at last that Bentley had to hang, and last week he did. Five hundred people, inspired in part by opponents of capital punishment, shouting, "Murder, murder!" and, "You don't hang the Nazis," gathered at the gates of Wandsworth prison on the morning of his death. They fell quiet as the hour of

FIGHT AT JAIL GATE AS BENTLEY DIES

execution neared, then, at 9 o'clock, the men bared their heads and the crowd sang *Abide with Me*. Twelve minutes later a warden opened the gates and the crowd clashed with police. But at length, in a crash of glass on the heavy wooden doors, up went the sheriff's declaration that "Judgment of death was this day executed on Derek William Bentley."





RIOTER STILL HOOTS IN LETTER BOX THOUGH EXECUTION NOTICE AND DEATH CERTIFICATE, HANGING IN GLASS THE CROWD BROKE, SIGNIFY CAUSE IS LOST

OIL FIREMEN WIN ON GULF



INSTALLATION'S PLATFORM CONNECTS THE SIX WELLS, HIDDEN BY FLAMES, TO BUNKHOUSE (RIGHT)

A drilling crew gets the upper hand over a hell on high water 14 miles off the Louisiana shore

On its stilt-legged platform 14 miles off the Louisiana shore in the Gulf of Mexico, a Pure Oil Company rig had barely finished drilling the last of six gas-and-oil wells when No. 6 gave an ear-splitting roar and caught fire. As drillers scrambled away, blazing gas boiled up under 5,000 pounds' pressure and, deflected by the "Christmas tree" valve assembly above the well, shot out in 65-foot jets parallel to the

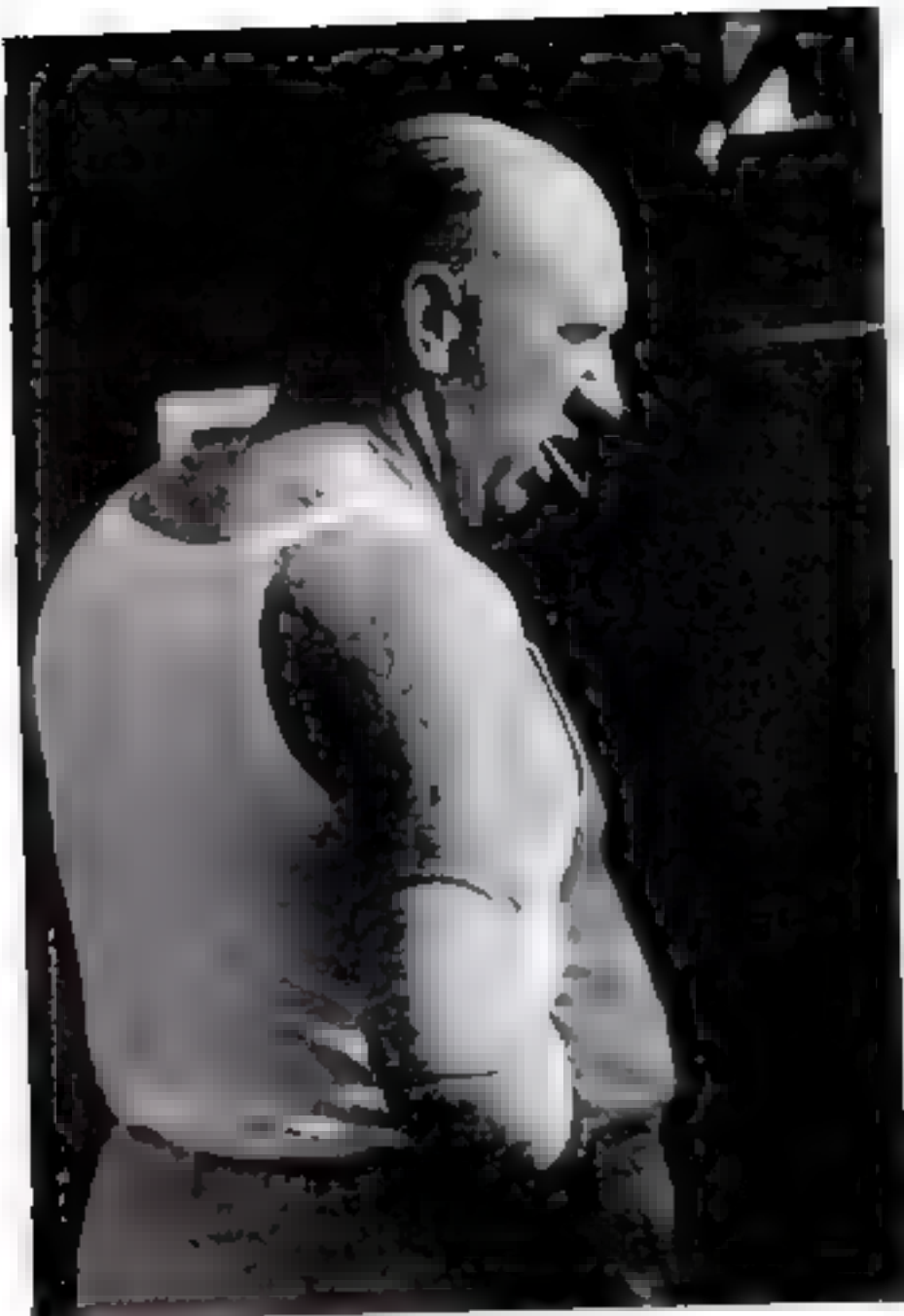
water. The flames blanketed the rig, and in half an hour the derrick toppled. Next day the well platform collapsed (*below*). If the fire went out, the gulf floor might "crater," collapsing and sucking in the entire multimillion-dollar rig, men and all.

Pure Oil called in the world's most famous oil fireman, Myron Kinley. He set out to knock the top off of the "Christmas tree" which was

deflecting the blaze and making close approach impossible. He borrowed a 75-mm rifle team from the Army, pounded the tree with explosive shells for one day. But it would not break. So he built a 90-foot boom with a loop on the end to snare the tree. Five days and a million dollars after the mid-water fire began, Kinley snapped the tree's tip (*far right*), but he still had more to do before he could save the rig.

CLOSE-UP BY "LIFE'S" BOB KELLEY SHOWS TANKS FALLING INTO WATER ALONG WITH DERRICK, PLATFORM. KNOBBED PIPES ARE "CHRISTMAS TREE" VALVE





OIL FIREFIGHTER Myron Kinley has scars from saving oil and gas from flames all around the world.

ASSEMBLIES WHICH REGULATE FLOW OF WELLS



WEAPON THAT WORKED was a special boom built with two-foot metal ring on the end (*left*) with which to snare "Christmas tree." It has just pulled off top of tree on well No. 6, where flames shoot skyward (*top*). Barge is now maneuvering to break tree above No. 5, which has also caught fire, and whose

horizontal flames prevent any close approach. This attempt on No. 5 failed. But Kinley confidently hoped he would be able to snap the tree which would make the flames shoot straight up and let him come close to set off a nitroglycerin charge to snuff out all the flames as if he were blowing out a match.



AS BELCHING FIRE LIGHTS NIGHT SKY, "EMPRESS" TURNS OVER ON SIDE

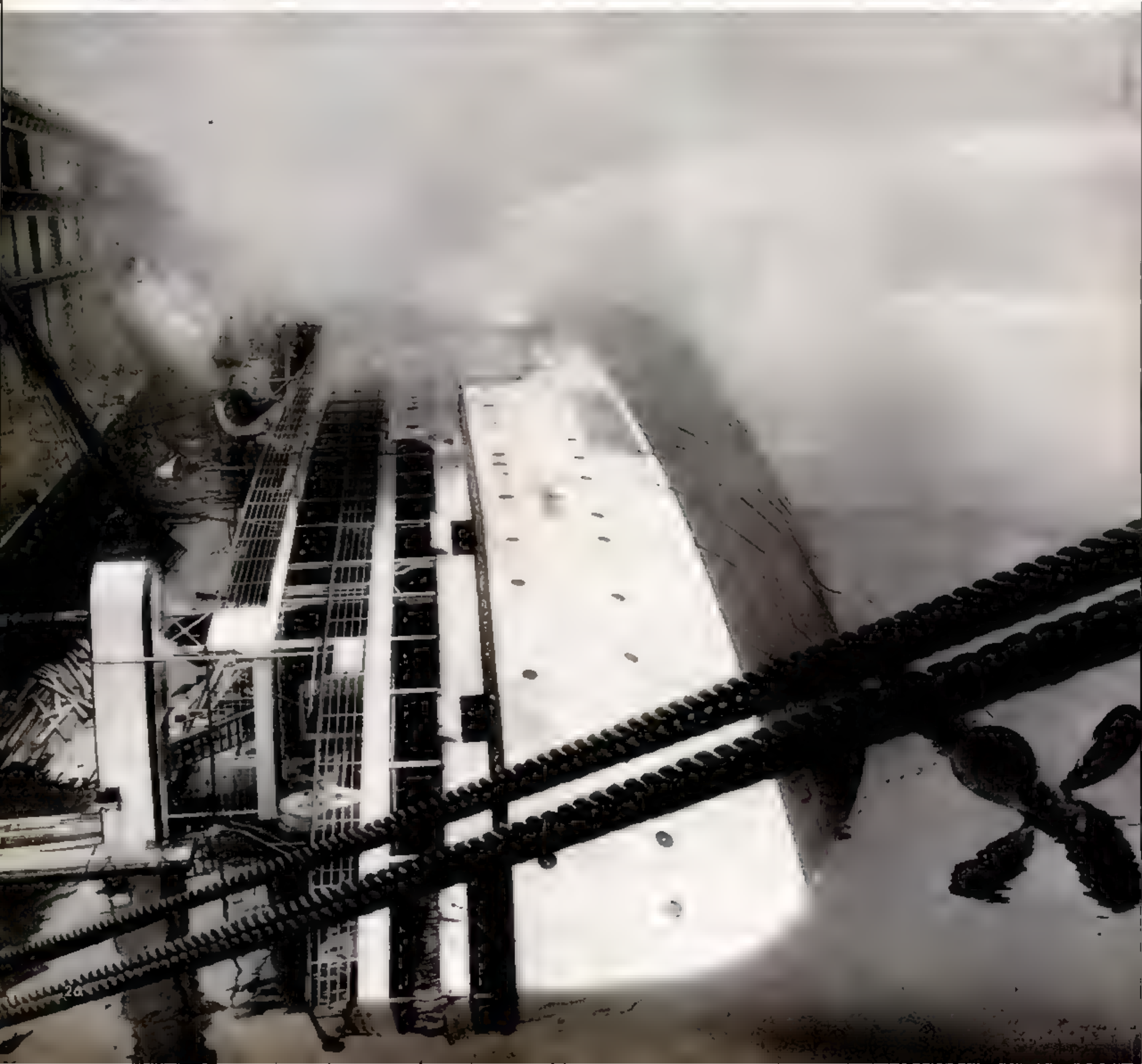
HARBOR FIREMEN LOSE

Fire-gutted 'Empress of Canada' sinks at Liverpool

Five thousand miles are and the world from which a man was waiting the night of the 12th. Liverpool firemen fought another water battle blaze. When the light was over they had lost a big gutted bulk of luxury liner to awkwardly on its side like a candle, where (the fact).

The 8,100-ton *Empress of Canada* had been tied up at the dock for a year or so when the fire broke out. Before the fire broke out it was a blaze from a window. Hundreds of tons of water poured into the burning ship had no effect on the fire. Just as the *Empress* began to list with the weight of the water, the ship suddenly moved over against the dock and hull sank a 30 feet of water. Still burning inside, the liner was a total loss. Most disturbing of all was the fact that last week saw a dozen other suspicious shipwrecking ships in the harbor, including the *Queen Elizabeth*. Authorities started searching for evidence of sabotage.

CAPSIZED LINER LIES GROTESQUELY WITH STACKS CRUMPLED AS WATER FROM FIREBOATS PLAYS ON STEAMING PLATES TO PREVENT EXPLOSION OF FUEL



Luscious new no-bake pie crust recipe!



CHOCOLATE-COCONUT CRUST

Made with your two favorites

BAKER'S CHOCOLATE and **BAKER'S COCONUT**



Here's pie crust straight from your childhood dreams! A luscious, magic blending of rich, dark Baker's Chocolate and tender-moist, flavor-fresh Baker's Coconut!

And it's so easy! Just mix it, pat it into a pie pan, and chill! Keeps for days in your refrigerator.

CHOCOLATE-COCONUT CRUST

- 2 squares Baker's Unsweetened Chocolate
- 2 tablespoons butter
- 2 tablespoons hot milk or water
- $\frac{3}{4}$ cup sifted confectioners' sugar
- $1\frac{1}{4}$ cups Baker's Coconut; cut, toasted or plain

Melt chocolate and butter in top of double boiler, stirring until blended. Combine milk and sugar. Add to chocolate mixture, stirring well. Add coconut and mix well. Spread on bottom and sides of greased 9-inch pan. Chill until firm. Fill with ice cream, cream pie filling, or chiffon filling.



Products of General Foods

Meet the New 1953 Mercury



MEET 1953'S STYLING STAR



WITH THE NEW, LONGER, LOWER LOOK



ALL DRESSED UP FOR THE CELEBRATION*



WITH A NEW UNIFIED BUMPER GRILLE



NEW 2-STOP DOUBLE-SAFE DOORS



NEW ONE-PIECE REAR WINDOW



COMPASS-POINT VISIBILITY ALL ROUND



SOLID, NEW, UNIFIED DESIGN



WHISPER-QUIET ON THE TURNPIKE



AGILE AS A CAT IN TRAFFIC



MERCURY PARKS LIKE A SPORTS CAR



CUTS MOUNTAINS DOWN TO SIZE

COME on—bring these pictures to life! Find out what it's really like to drive and live in the greatest Mercury yet.

It's worth it just for performance alone. For there's new action in Mercury's far-advanced V-8. There's better balance in Mercury's exclusive Unified Design — plus greater quietness, solidity, and finer on-the-road control. But there are other reasons for changing this armchair demonstration into a real, *in-person* test run.

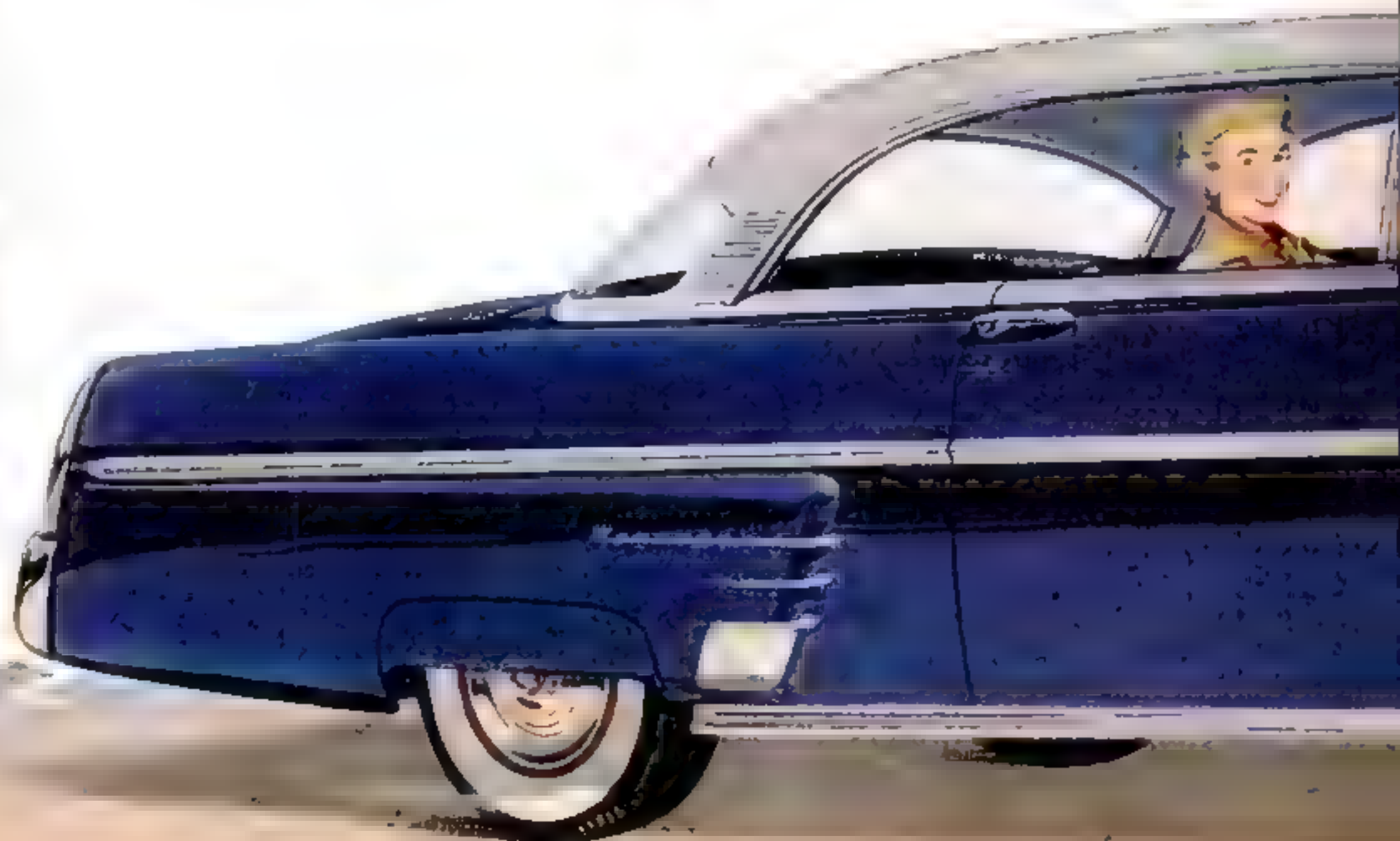
You want to get right next to the way-ahead styling with the new longer, lower look. You want to see the dazzling new colors, inside and out, feel the richest fabrics we've ever offered.

Above all, you want to get the *facts*. Match Mercury against the field — compare it with all others, feature by feature — check the *new* savings in the car that's famous for economy. You'll get the greatest yet — the wonderful new Mercury for 1953! Your dealer is waiting for you!

MERCURY DIVISION • FORD MOTOR COMPANY

Standard equipment, color, line, and trim illustrated are subject to change without notice. Always check availability and full details with your dealer.

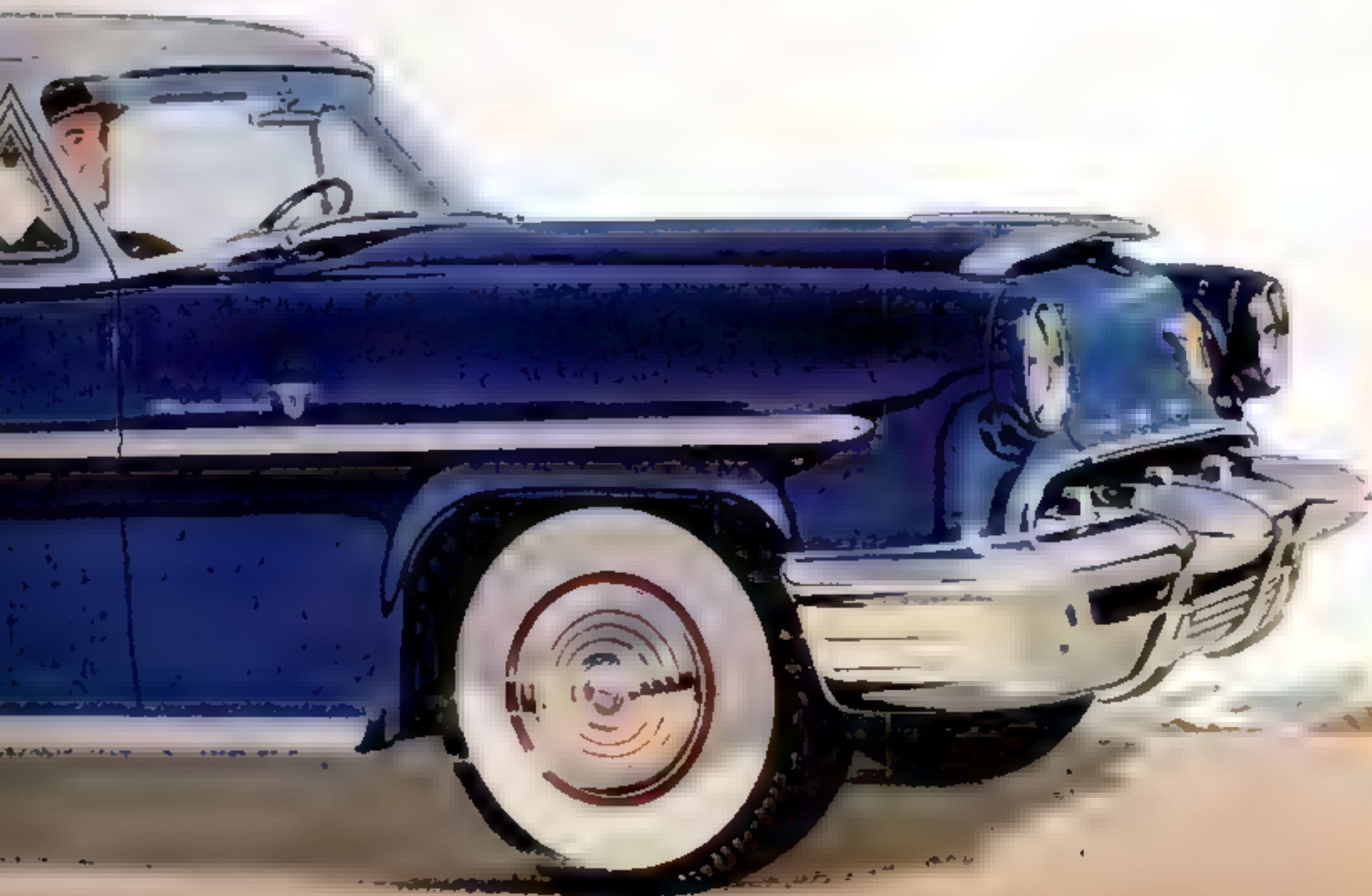
—then try the real



take a ride on these pages



thing at your dealer's!



GET THE FACTS —
AND YOU'LL GO FOR
THE NEW 1953

MERCURY



*Mercury—symbolizing the progress
of Ford Motor Company in its
50th anniversary year



Worth making tracks for. When the cold bites deep, a wonderful drink to head for is a warming and satisfying hot toddy, made with that most satisfying whiskey—Four Roses. The very special and distinctive flavor of Four Roses has made this superb whiskey the first choice of millions across the nation.

Frankfort Distillers Corp., New York City. Blended whiskey. 86.8 proof. 60% grain neutral spirits.

Wouldn't you
rather drink
Four Roses





PARADER CARRIES THROUGH CAIRO A STATUE SYMBOLIZING THE NEW EGYPT

CARNIVAL IN CAIRO

General Naguib takes absolute power and Egyptians parade in his honor

"The people must laugh," said an officer making the arrangements—and the people were in a mood to. Six months after he had kicked out corrupt King Farouk, "Leader of the Revolution" General Mohammed Naguib invited the whole country to a four-day festival marking the occasion. Forty thousand Egyptians packed into Cairo's newly named Liberation Square to hear Naguib pledge that his new Liberation Society, which replaces all previous political parties, would run the country for the next three years on a platform of "unity, discipline, work."

Then the army paraded, there were floats, water sports, music and dancing in the streets. Every one bought balloons for the children and munched sugar

cane till the streets were whitened with the husks.

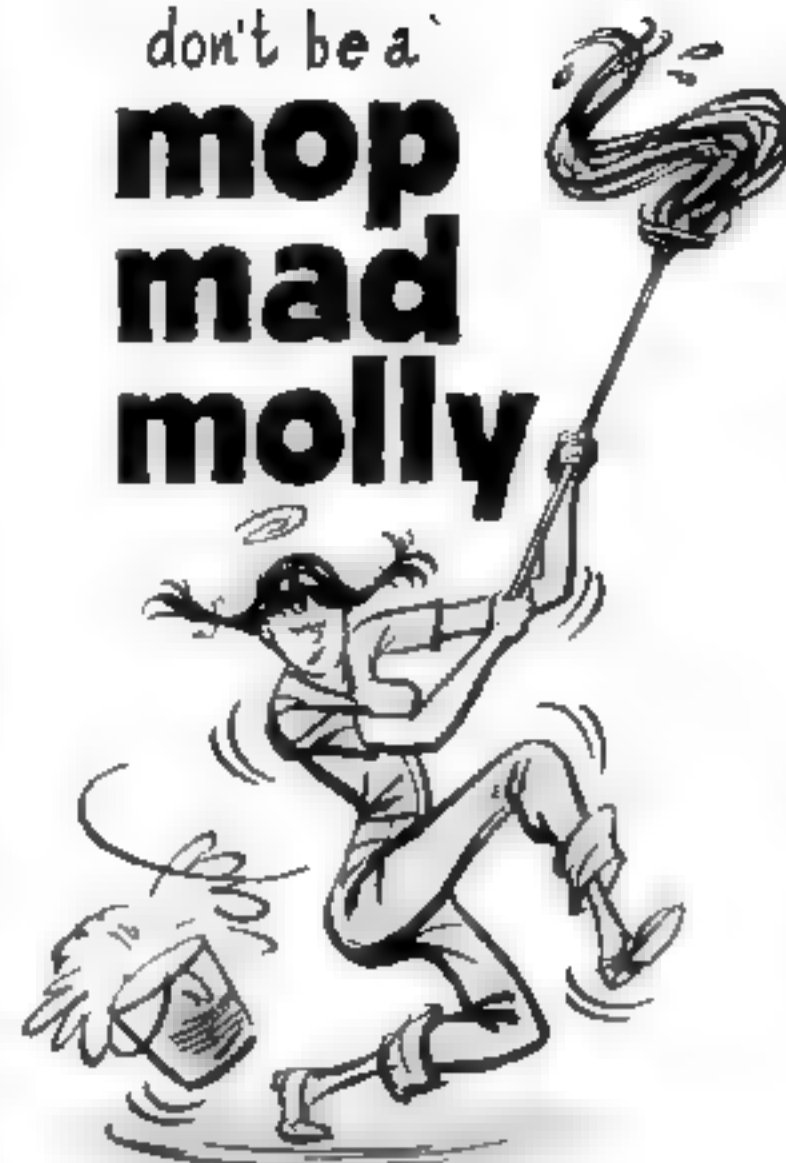
Western observers have been worried about the stability of the Naguib regime, which they think is Egypt's last best hope for moderation and progress—even though it has assumed dictatorial powers for the time being. Though they knew that Egypt's staggering problems were far from being solved, they felt sure last week that the people are still passionately devoted to their new leader. They were impressed by the way, a year after the antiforeign riots which burned down much of downtown Cairo (LIFE, Feb. 11, 1952), the carnival crowds didn't seem to be mad at anyone. When they came across foreigners, they simply shouted, "Happy Liberation Day."



FIGHTERS OF EGYPT'S AIR FORCE ROAR OVER LIBERATION SQUARE WHERE NAGUIB'S HONOR GUARD IS DRAWN UP

CONTINUED ON NEXT PAGE

don't be a
**mop
mad
molly**



Floors got you mopping mad? Install amazing plastic floor. Dirt wipes off fast, easy. Never needs waxing for wear-protection. No kitchen mess can stain. Wears longer! 25 superb colors by tile or yard. The MODERN floor—and counter top, too.

Flor-Ever®

FINEST *Vinyl* FLOORING

DELAWARE FLOOR PRODUCTS
Division of Congoleum-Nairn Inc.
WILMINGTON 99, DEL.

RELAX...



**NO FEAR OF
ACID INDIGESTION,
HEARTBURN**

Relax and enjoy your food! If acid upset follows, simply take TUMS. These delicious antacids neutralize the excess acid that causes your stomach distress. That is why you feel fine—so fast.

TUMS are carminative; comforting; soothing. Never over-alkalize.

• still only 10¢ a roll



**FOR THE
TUMMY**

GUARANTEED TO RELIEVE NO SODA

NEW FINESSE
Shampoo and
STOPETTE
Spray Deodorant

both for just \$1 plus 10¢ P.E.T.

Stopette
SPRAY DEODORANT

Finesse
flowing cream shampoo

Look for the "TWOSOME"
specially priced for limited time only!

REGULARLY 60¢ EACH
Specially Priced To Introduce Dr. Montenier's Remarkable
New Shampoo To The Millions Who Rely On Stopette.

Like Flowing New Life In Your Hair! Finesse Shampoo has a "magnetic" attraction for soil, leaves your hair brilliantly clean without stripping it of vital, natural oils. The result is more life, more body . . . lasting, natural sheen. Finesse is a flowing cream . . . easier to use, wonderfully economical. Give three quick squeezes to the unique "accordion" bottle . . . use hardly a rimbleful . . . for hair that's bright with life and beauty.

And Everybody Knows Stopette! The original spray deodorant, favorite with millions of fastidious men and women, Stopette provides the famous *extra Margin of Safety* that keeps underarms comfortably dry all day long. Use Stopette regularly and . . . Poof! There goes perspiration!

JULES MONTENIER, INC., CHICAGO 10, ILLINOIS

Cairo Carnival CONTINUED



NAGUIB (waving), with powerful associate Lieut. Colonel Nasr, is surrounded by joyful crowd as he leaves Liberation Square after first day's pageantry.



TANK FLOAT equipped with giant mock syringes to replace guns was contributed by the Egyptian ministry of health for the third day of the parade.



CHAIR FLOAT with papier mâché elephant and a live man was contributed by chair factory in parade symbolizing the industrial progress of the country.



ARTISTS' FLOAT, one of daylong series offered by both crafts and business groups, was accompanied by masked painters carrying their palettes.



HERE IT IS ! PHILIP MORRIS KING-SIZE

—the only leading King-Size cigarette made an exclusively different way to avoid the main cause of irritation!

NOW! PHILIP MORRIS is available in the new
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Remember, you'll *feel better* when you change to
PHILIP MORRIS. In case after case, coughs due to smoking
disappear . . . parched throat clears up . . . that stale,
"smoked-out" feeling vanishes.

Yes, KING-SIZE or REGULAR

YOU'LL FEEL BETTER
smoking PHILIP MORRIS

Call for **PHILIP MORRIS**

Take your choice
but make your choice
PHILIP MORRIS
KING-SIZE or REGULAR



LIFE ON THE NEWSFRONTS OF THE WORLD

The new Formosa policy leaks out, Operation Smack causes a blowup and a Texas town honors a Negro

Three days before President Eisenhower made his State of the Union speech, the story leaked out that he was going to end the "neutralizing" role of the U.S. Seventh Fleet in Formosa Strait, thus allowing the Chinese Nationalist forces to attack the Communist-held mainland. Such a major change in policy with such potentially far-reaching consequences should have come from the President himself, who has been trying to stop news leaks from his office, but the news was first reported by A.P. Correspondent Jack Bell, who is well known to senators of both parties. The President had discussed his coming speech with his own staff and with Vice President Nixon, Senators Robert Taft, Styles Bridges, Eugene McCarthy, Leverett Saltonstall, and Congressmen Joe Martin, Charles Halleck and Leslie Arends. If the premature disclosure had come from any of these men, no one was admitting it.

Near the town of Bentley, Canada an oil exploration crew drilled down 500 feet with rather alarming results. They struck underground water that must have drained from a lake bed, for instead of oil, the well gushed thousands of fish.

Truman doubts Russia has A-bomb

As president, Harry Truman announced three Soviet nuclear explosions, but he said last week he was not "convinced" that Russia's experiments had resulted in a workable A-bomb. Some congressmen greeted this opinion with cries of "misrepresentation" and "irresponsible comment." AEC Chairman Gordon Dean said he was sure the Russians have atomic weapons. But A-bomb expert Lieut. General Leslie Groves and Nobel Prize Winner Arthur Compton admitted there was room for doubt, and Truman cheerfully stuck to his statement.



ALLEN DULLES GREETS HIS WOUNDED SON

Last November in Korea, Marine Lieut. Allen Dulles was wounded three times in 24 hours as he led attacks on snipers. Last week, still convalescing, he arrived at Andrews Air Force Base, Md., where his father, Allen Dulles, the new head of Central Intelligence Agency was waiting to greet him.

Roger de Boisguilbert, a French landowner, claims he is descended from the Knight Templar Brian de Bois-Guilbert, and he is suing Metro-Goldwyn-Mayer for 10 million francs because Sir Brian is maligned in the movie Ivanhoe. (Brian abducted Rebecca and tried to kill Ivanhoe.) M-G-M's French lawyer has pointed out that since Knights Templar took vows of chastity, Descendant Roger might have a shaky case.

Operation Smack

When Company E of the 31st Regiment of the U.S. 7th Division attacked Spud Hill in Korea, three men were killed and 61 wounded. Operation Smack was observed by three generals, some military specialists and correspondents—a common enough occurrence. But because a timetable of the operation with a colored cover was given out to the observers, a newspaper dispatch implied that Operation Smack was deliberately staged just for the benefit of high-ranking onlookers. A Boston draft board official resigned in protest, an English M.P. tried to complain to the U.N., and Congressman Clare Hoffman extravagantly compared Operation Smack to a gladiatorial combat for the amusement of Roman emperors. But the whole tempest subsided as soon as the Army had a chance to explain—and convince complainers—it had been a perfectly routine operation.

Four months after leaving Africa in her 23-foot yacht *Felicity Ann*, 38-year-old Ann Davison arrived last week in the West Indies, the first woman to sail solo across the Atlantic. She had lost her husband on a previous attempt, and this time she had vowed to do it alone (LIFE, June 2).

Dr. Dickey, leading citizen

In 1921 when James Lee Dickey came to Taylor, Texas as a young Negro doctor, Negro patients had to wait in the hospital halls until all white patients had been treated. Over the years Dr. Dickey badgered and bothered townspeople. He got a modern 15-bed hospital for Negroes. He got the town to fix up its sewage system so that a Negro settlement was protected from typhoid fever. He helped replace Negro shacks with a Federal housing project. Improvements such as these were not easy to bring about in a Jim Crow area, and Dr. Dickey thought that he had "antagonized everybody in town for 30 years." He was wrong. Last week the white civic leaders of Taylor chose him as their outstanding citizen of the year.

Four years ago Ruta Hayworth and Prince Aly Khan were elaborately married (LIFE, June 6, 1949), and things have been complicated for the couple ever since. Last week after an uncomplicated 17-minute hearing, the idyl came to an end when a Reno judge gave Miss Hayworth a divorce and custody of her 3-year-old daughter Yasmin. For the time being no mention was made of money.

William Remington, who has been under investigation or on trial ever since 1948, was found guilty of perjury last week. A federal jury decided that he had lied during a previous trial when he denied handing over secret information to a Soviet spy courier, Elizabeth Bentley.



NEW BUILDING MAKES SUN INVISIBLE

When Pittsburgh's Heppenstall Co., manufacturer of steel forgings, decided to modernize its old office building, it reversed the trend toward glass walls (LIFE, June 2) and came up with an absolutely windowless structure. The new stainless steel building is both clean and cool, but the company has had to install weather indicators on all floors so that office workers can tell whether or not to put on raincoats and rubbers before going home.

St. Louis Cards lose owner

The St. Louis Cardinals will have to start the 1953 baseball season under new ownership. The present owner, Fred Saigh, was fined \$15,000 and sentenced to 15 months in prison for income tax evasion. Said Saigh, after hearing sentence, "There is no way I can stay in baseball." Trustees will take charge of the club until Saigh can dispose of his stock, whose estimated value is \$4 million.

Marius Renard, the 16-year-old French boy who received a kidney transplant from his mother (LIFE, Jan. 19), managed to live for 33 days after the "miracle" operation. But in spite of early improvement, Renard's grafted kidney failed to function properly, and last week he died.

Wilson aides sell out to get in

Having confirmed Charles Wilson as Secretary of Defense once he agreed to sell his stock holdings, the Senate approved three of his chief aides—Roger Kyes as Deputy Secretary, Robert Stevens as Secretary of the Army and Harold Talbott as Secretary of the Air Force—after they reluctantly agreed to dispose of their business interests. Robert Anderson was approved as Secretary of the Navy without selling his interests because his companies do not do business with the government.

GREAT EATING



Appetites - attention! America's favorite cracker teams up with America's favorite tomato soup to give you the fullest, "bracey" goodness. RITZ CRACKERS are now richer, crisper than ever. More shortening's the secret of the finer, "buttery" flavor. A very special

baking process gives them the crispness you demand. While the flakier, "tenderer" goodness simply *cannot* be equalled. Get them both now, while the getting's good. NATIONAL BISCUIT COMPANY

"Nothing tastes as good as RITZ but RITZ!"

"RITZ'n'Tomato soup"





A COURIER (LEFT) BRINGS DOCUMENT NOTIFYING McINTYRE (HOLDING HAT) OF HIS APPOINTMENT. BISHOP O'CONNOR RAISES FINGER TO LIPS FOR SILENCE

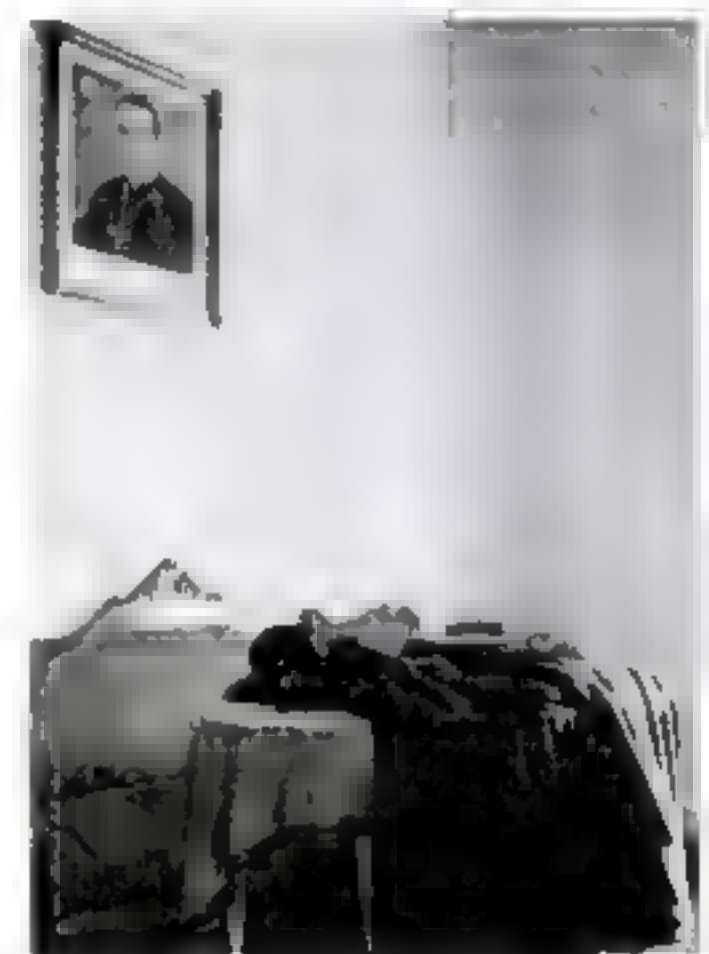
Spectacle for New Cardinals

POPE RAISES 24 ARCHBISHOPS TO SACRED COLLEGE

The papal consistory was a great occasion, bringing prelates to Rome from the ends of the earth, but Pope Pius directed that the ceremony, which would elevate 24 archbishops to the college of cardinals, be conducted with less pomp than usual. Because of war and poverty in the world, he said, the new cardinals should dress more simply. Their purple robes should be wool instead of silk and the trains on ceremonial cloaks should be nine feet instead of 18. But in the magnificence of St. Peter's Basilica the new austerities were scarcely noticed amid the rich colors, the glitter of chandeliers and the symbolic dove of the Holy Ghost hanging high over the papal throne.

Of the new cardinals only 17 received their red

hats from the Pope. Poland's Stefan Wyszynski and Yugoslavia's Aloysius Stepinac declined to make the trip, fearing they might not be able to return to their archbishoprics. Five prelates from Spain, Portugal and France honored a tradition and were hatted by the chiefs of state of their countries. Only one new cardinal was from the U.S., disappointing Americans who had hoped the Pope might select four as at the last consistory in 1946. But the man picked, Archbishop James Francis McIntyre of Los Angeles, was anything but a disappointment (pp. 38-40), and, when he received his notification at the North American College in Rome (above), scores of well-wishers from the U.S. were on hand to congratulate him.

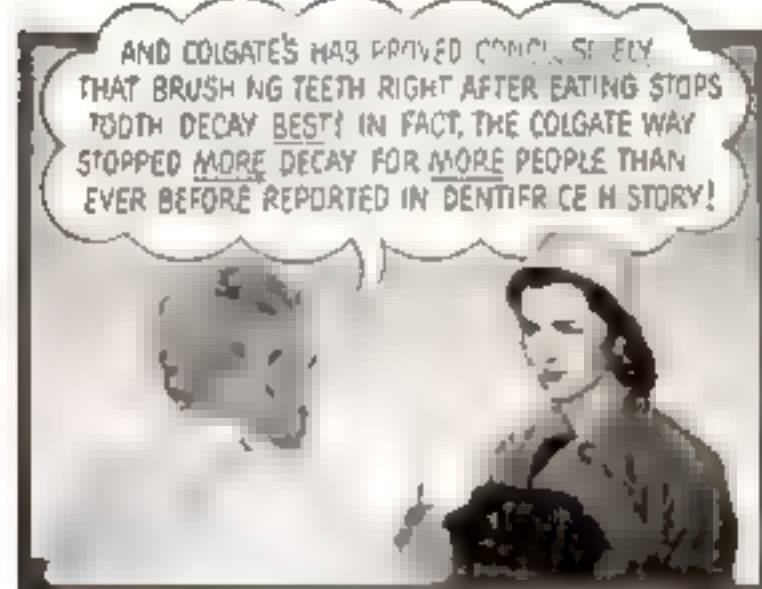


STEPINAC'S OLD ROBES, under his photo, were copied for new ones.



← IN SPLENDOR OF ST. PETER'S, Pope Pius takes throne before the cardinals, who sit in their white ermine capes on two long benches facing each other.

ON FLOOR BEFORE ALTAR new cardinals prostrate themselves, covering heads with their capes to signify humility as choir intones *Te Deum* hymn.



Brushing Teeth Right After Eating with **COLGATE DENTAL CREAM** **STOPS BAD BREATH and** **STOPS TOOTH DECAY!**

Colgate Dental Cream instantly stops bad breath in 7 out of 10 cases that originate in the mouth! And the Colgate way of brushing teeth right after eating is the best home method known to help stop tooth decay!



PURE, WHITE, SAFE COLGATE'S WILL NOT STAIN OR DISCOLOR!



POPE PUTS CARDINAL'S BIRETTA, OR SQUARE CAP, ON McINTYRE'S HEAD

CHURCHMAN AND BUILDER

by DAVID HULBURD

LOS ANGELES, CALIF.

Every now and again, after someone has paid a call on the Archbishop of Los Angeles, the visitor is asked, "Did His Excellency give you any tips on the stock market?" The question implies neither disrespect nor irreverence; it simply recognizes a rare combination of talents in a rather unusual man. As a priest who last week became a cardinal of the Roman Catholic Church, James Francis Aloysius McIntyre is truly a man of God, devout, humble, wise and kind. As a man who spent 16 years of his early life in Wall Street, he has one of the shrewdest financial minds in the Catholic hierarchy.

In his youth Francis McIntyre gave promise of following the Horatio Alger pattern. His mother died when he was 10, his father was an invalid for many years and he was raised by a devoted cousin who became his foster mother. At 13, like many another New York East Side kid with a Third Avenue accent, Frank McIntyre started work as an office boy on the Curb Exchange. At 16, an age when most aspirants to the priesthood are about to embark on their formal training, he became a runner for the brokerage house of H. L. Horton & Co. He worked his way up, serving at one time or another in practically every department and finally becoming office manager at \$2,600 a year. "I've never encountered a quicker mind than Frank's," said one of the firm's partners not long ago. "Whenever an answer was needed to a difficult problem someone would usually say, 'Get Frank.'"

There came a day when they no longer could get Frank. In 1915, when he was 29, his father died. Thus relieved of financial responsibility, this pleasant and friendly young man, already a familiar figure downtown in his high collar and bowler hat, abruptly turned his back on Wall Street and a partnership the firm then offered him and moved on into a new life he had always dreamed of.

If Frank McIntyre was not the most brilliant student in his class at St. Joseph's Seminary at Yonkers, N.Y., he was perhaps its most consecrated member. His classmates still remember his devotion to daily duties, his aversion to the breaking of any rule, his intense interest in the affairs of the Church. "We used to say," one of them recalls, "that Frank McIntyre kept the wrath of God off the seminary."

Six years after he had left Wall Street, McIntyre was ordained a priest by Cardinal Hayes at St. Patrick's Cathedral in Manhattan. He moved into a third-floor back room at the famous old residence in the shadow of St. Patrick's, and there he lived and worked for 25 years.

The Archdiocese of New York is one of the largest and richest in America. Its finances are exceedingly complex, embracing a great variety of property and many millions of dollars. The man who manages all this is the chancellor, a title to which McIntyre eventually succeeded. He brought to that job all his organizing ability, his Wall Street experience and a humble priest's patient and Christian understanding. The ever-rising tide of financial statements, insurance

CONTINUED ON PAGE 40

Best news for your eyes in TV history...



Bing Crosby, starring for G. E. on CBS-Radio

G-E ULTRA-VISION

● Most advanced picture tube in the world—21-inch G-E Aluminized Tube with cylindrical face. Used only in G-E Ultra-Vision, it mirrors light toward you, steps up contrast, increases brightness up to 100%. Add G.E.'s tilted, deep-tone safety glass and you get TV's widest range of picture tones with virtually no glare and reflections. And—the great G-E Stratopower chassis delivers 2½ times more pull-in power than previous sets.

G-E Dealers' spectacular showdown gives you this dramatic proof



Model 21C206



Joan Davis, G-E star of "I Married Joan" on NBC-TV

↑ **G-E ULTRA-VISION.** 21-inch G-E Aluminized Picture Tube gives brightness to spare—for superb picture contrast under all lighting conditions. Whites are whiter—blacks blacker—100% greater range of grays than any other TV. Greatest eye comfort ever achieved.

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BLACK-DAYLITE WITH ULTRA-VISION

LOOK at G-E Ultra-Vision in action, next to any other TV. No sales talk needed—your eyes will tell you that G-E Ultra-Vision offers far more clarity, sharper contrast, greater freedom from glare and reflections than any other make. Even under brightest lights where other TV pictures often fade, G-E Ultra-Vision remains dramatically sharp and clear. See TV's most spectacular showdown.

General Electric Company, Electronics Park, Syracuse, N. Y.

G-E TV Prices Start at \$199.95 Includes Federal Excise Tax, one-year Factory Warranty on picture tube and 90 days on parts. Prices subject to change without notice.

You can put your confidence in—

GENERAL  ELECTRIC

More babies have grown up **strong** and **healthy** on **Pablum** cereals than on any other pre-cooked baby cereal



4 varieties at your grocer's or druggist's



Best to Mother... Safe for Baby!
Exclusive "Handy-Pour" spout prevents messy spilling... keeps baby's cereal fresher and safer between feedings.



Best to Start On... Best to Stay On!
Four wonderful Pablum® Cereals give baby variety, plus high nutritional values so important through his third year.



Time for Baby's Visit to the Doctor's?
Don't put it off! He's anxious to help you, even with your smallest problem. Look to him for expert advice.

Pablum is the original pre-cooked cereal made only by Mead Johnson & Co., Evansville, Ind.—world famous for nutritional products for infants and children

MEAD

NEW CARDINALS CONTINUED

papers, mortgages and interest payments never inundated him. Not one parish in the New York see failed to meet its obligations because of the 1929 crash. During the late '30s the affairs of the diocese were in such good shape that Chancellor McIntyre was able to refinance churches from high-interest mortgages to low-interest commercial notes.

Francis McIntyre never lost sight of spiritual goals. He conducted more than his share of confirmations, made it a practice to hear confessions every Saturday night at St. Patrick's, a duty more often undertaken by curates than by bishops. And as Vicar General of nearly 2,000 priests, he was a just but firm disciplinarian, and those few priests who failed to measure up to his rigid standards were glad he was leaving their diocese.

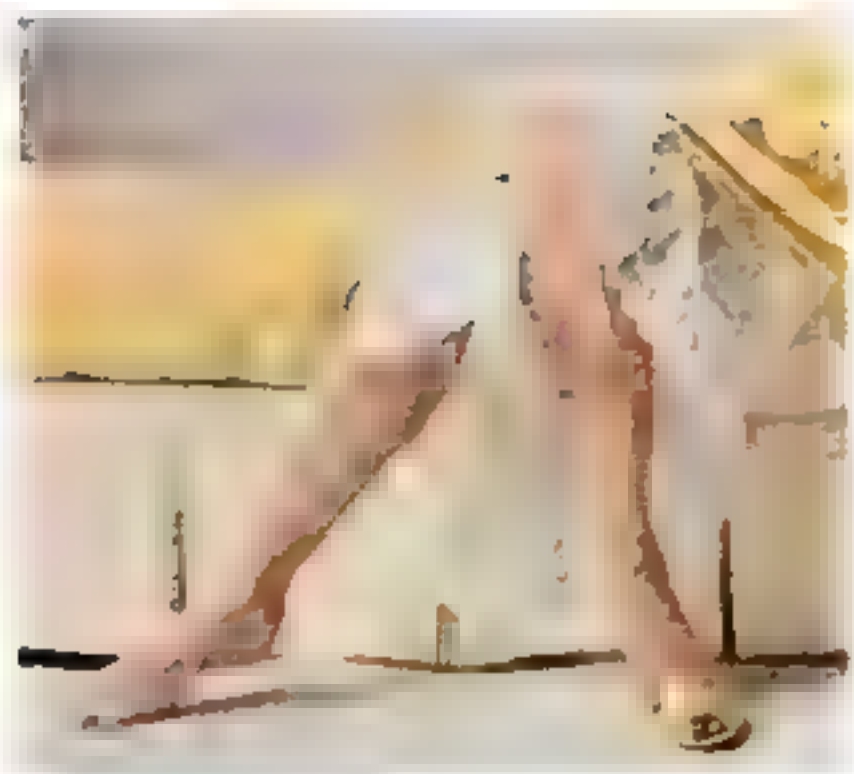
Francis McIntyre became Archbishop of Los Angeles in the spring of 1948 and moved into a spacious Spanish-style house, once owned by the Gillette razor family. But the new archbishop, who by then was almost 62 years old, felt no inclination to relax in such relaxing surroundings. He was at once faced with a hard decision. For some time there had been considerable planning for a new cathedral to replace St. Vibiana's, which is in a section of town fast deteriorating. On the other hand parochial school enrollment had risen from 30,000 to 52,000 in the archdiocese since 1938, schools were crowded and Los Angeles was still growing. The archbishop made a firm decision: the new cathedral would have to be postponed. "I found it much more important," he explained later, "to spend \$10 million on new schools."

The decision resulted in what was perhaps the most concentrated fund-raising and school-building program ever undertaken anywhere. Under the archbishop's day-by-day supervision—while he was simultaneously supervising the construction of 26 new parishes—no less than 83 new schools were built in less than five years at a cost of some \$15 million, and enrollment soared to 90,000 students. A handsome new cathedral would have been an everlasting monument to the West's first cardinal; the schools are a monument to his devotion to Catholic education.

On the subject of education Archbishop McIntyre knows exactly where he stands, and so does everyone else within earshot. His denunciation of New York State's so-called antidiscrimination bill in 1947 was said to have been the main instrument bringing about its defeat. Last fall he spearheaded a drive to pass a California state referendum removing the tax on nonprofit private secondary schools, in which the Catholic Church has such a great interest. Although the referendum was highly unpopular among many groups, it was passed last November. He has implacably opposed progressive education, deploring what he thinks is its tendency to advocate atheism; and he decries what he believes is a flight from God in most public school teaching. "As a citizen of Los Angeles," he said, "where 50% of the Catholics attend public schools, I maintain that the minimum religious requirements in those schools should be *acknowledgment* of the Divinity of Christ, and the *sanction* of the Ten Commandments." On these and kindred subjects some liberal churchmen and laymen have taken sharp issue with the archbishop. But his faith and belief are unshakable: on matters of moral and divine law as defined by the Roman Catholic Church he will not compromise.

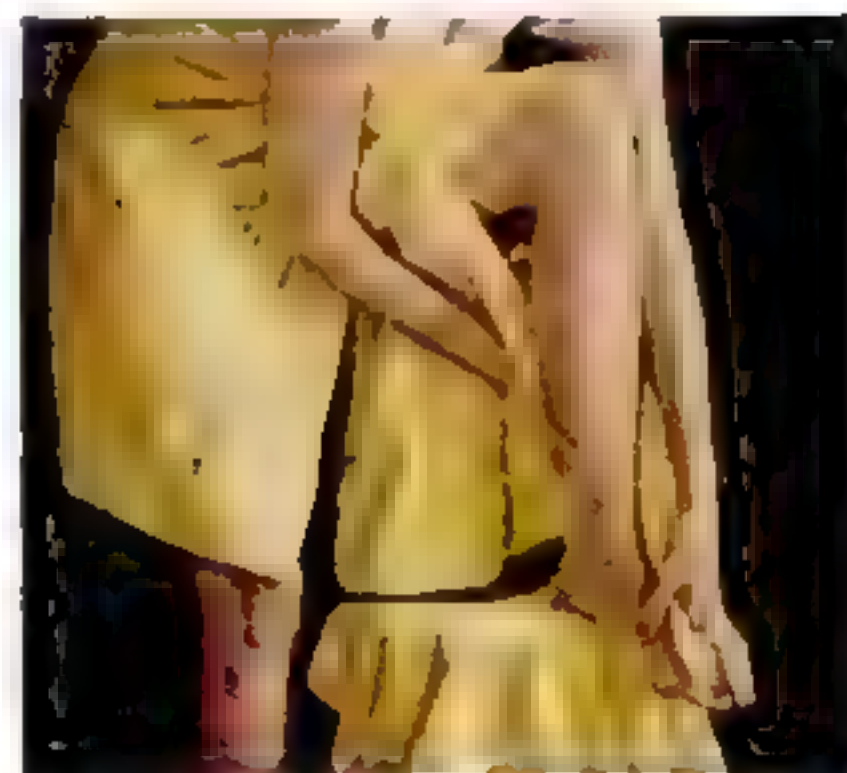


NEW ATTIRE, which McIntyre will wear on solemn occasions, includes red biretta, gold cross, red cassock, lace rucher, red silk robe topped by ermine



1. You've "MMMmmmed"
over smooth-sleeping
Cannon Sheets

2. You've "AHHhhhed" at the luxury
of colorful Cannon Towels



3. Now discover
OHHhhh-so-sheer
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—nylons a gal can trust!

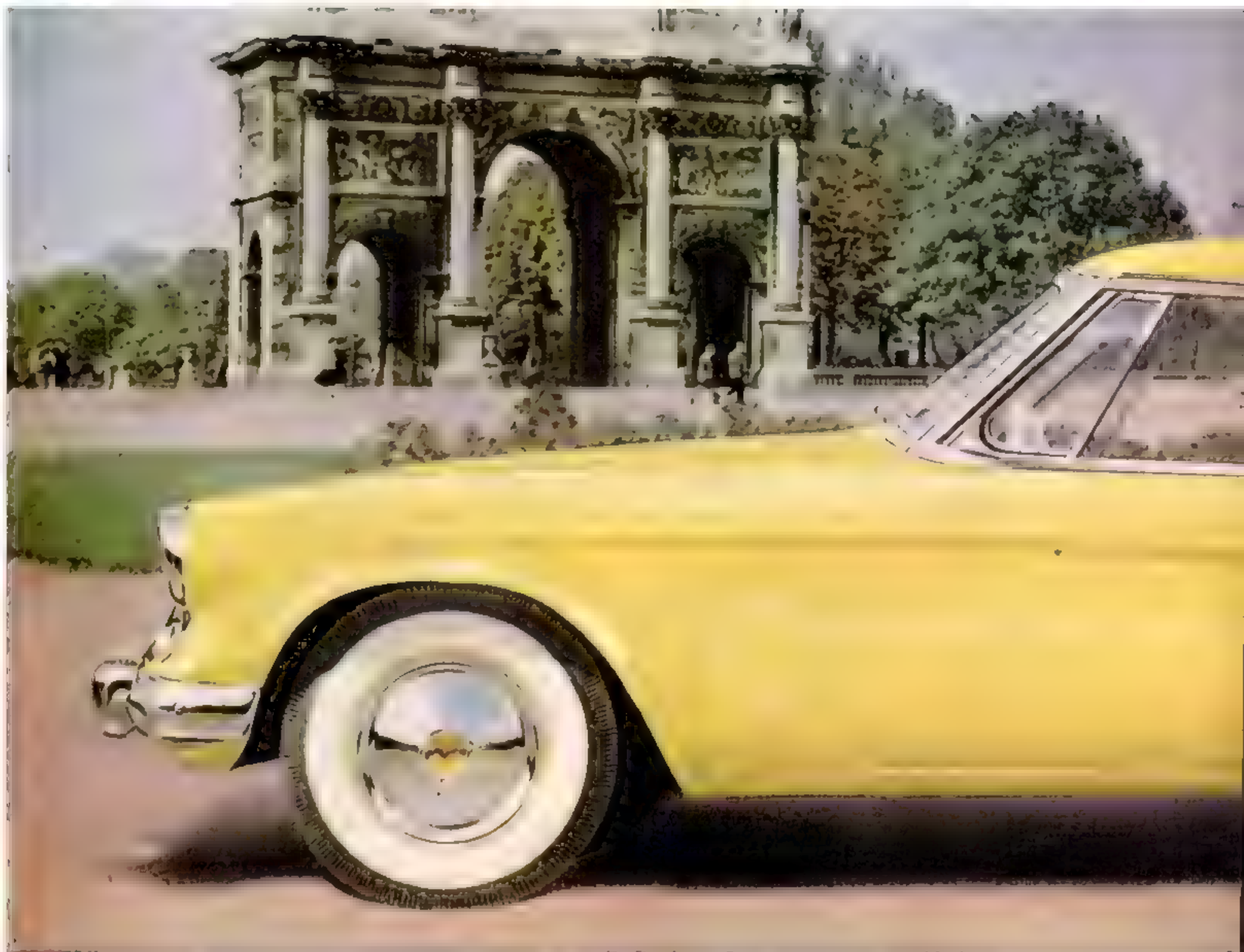
Come read the good news! Discover all new,
all wonderful Cannon Nylon Stockings for yourself!
See the clear, sheer beauty and soft,
subtle blending of new Glow Tones that flatter
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You can trust them to wear. For they're made
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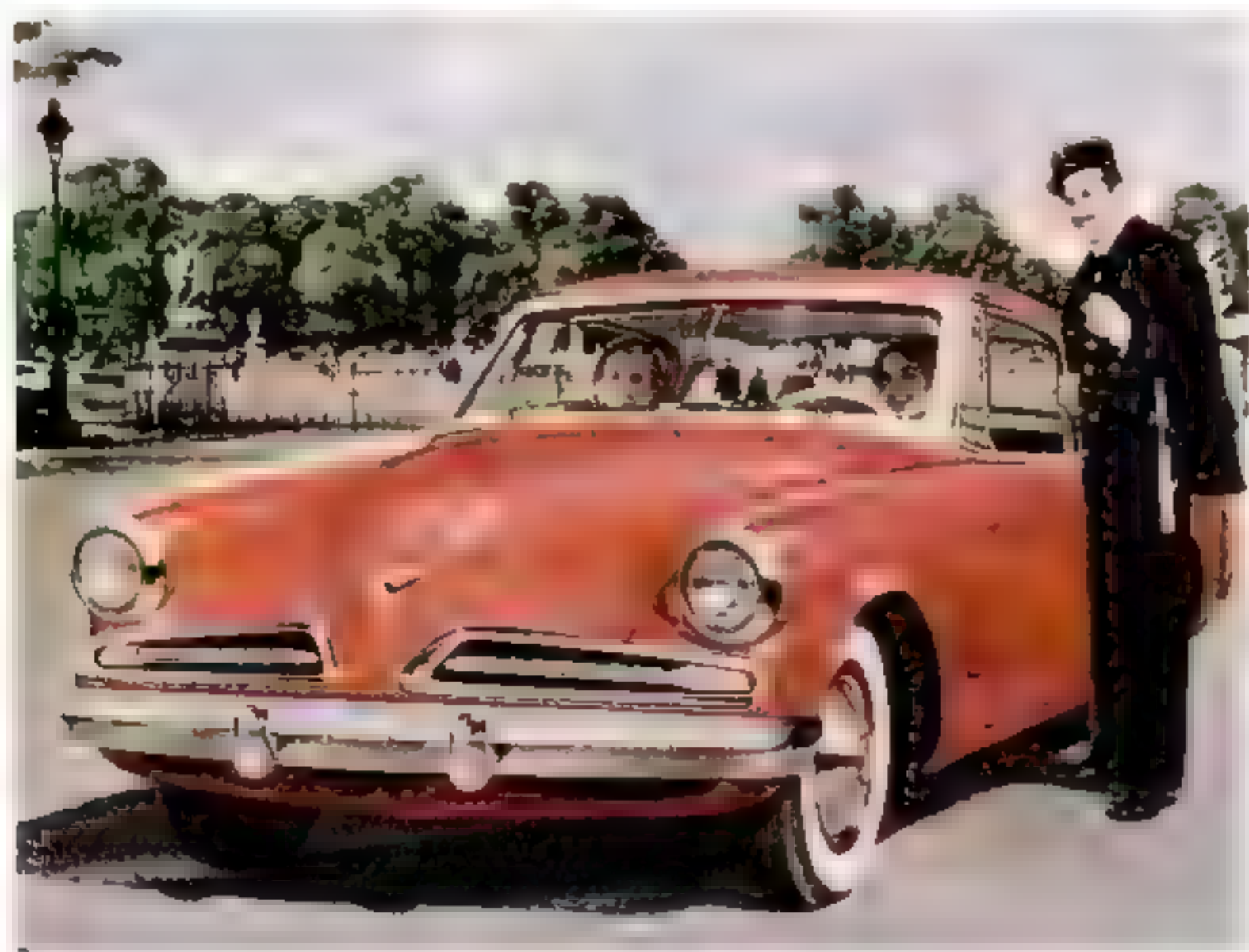
Get several pairs of new Cannon Nylons—at your
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Cannon Mills, Inc., 70 Worth Street, New York 13, N. Y. Makers of Cannon Towels—Sheets—Bedspreads





1953 Studebaker Starliner coupe for five—white sidewall tires and chrome wheel discs optional at extra cost



Less than five feet high! Impressively long and wide! 1953 Studebaker Starliner coupe!
It's a new flight into the future—a new flair for today!

Announcing *The new American*

A NEW 1953 CHAMPION

A NEW 1953 COMMANDER V-8

HERE is the most daring step forward of our times in automobile designing—a car utterly different in concept and sparkling with breath-taking originality . . . the new 1953 Studebaker . . . truly a new flight into the future!

This, unquestionably, is the first American car with a real foreign-car flair—an impressively long and racy Studebaker that's so very low most people can see right over it.



Actual color photograph

the New 1953 Studebaker

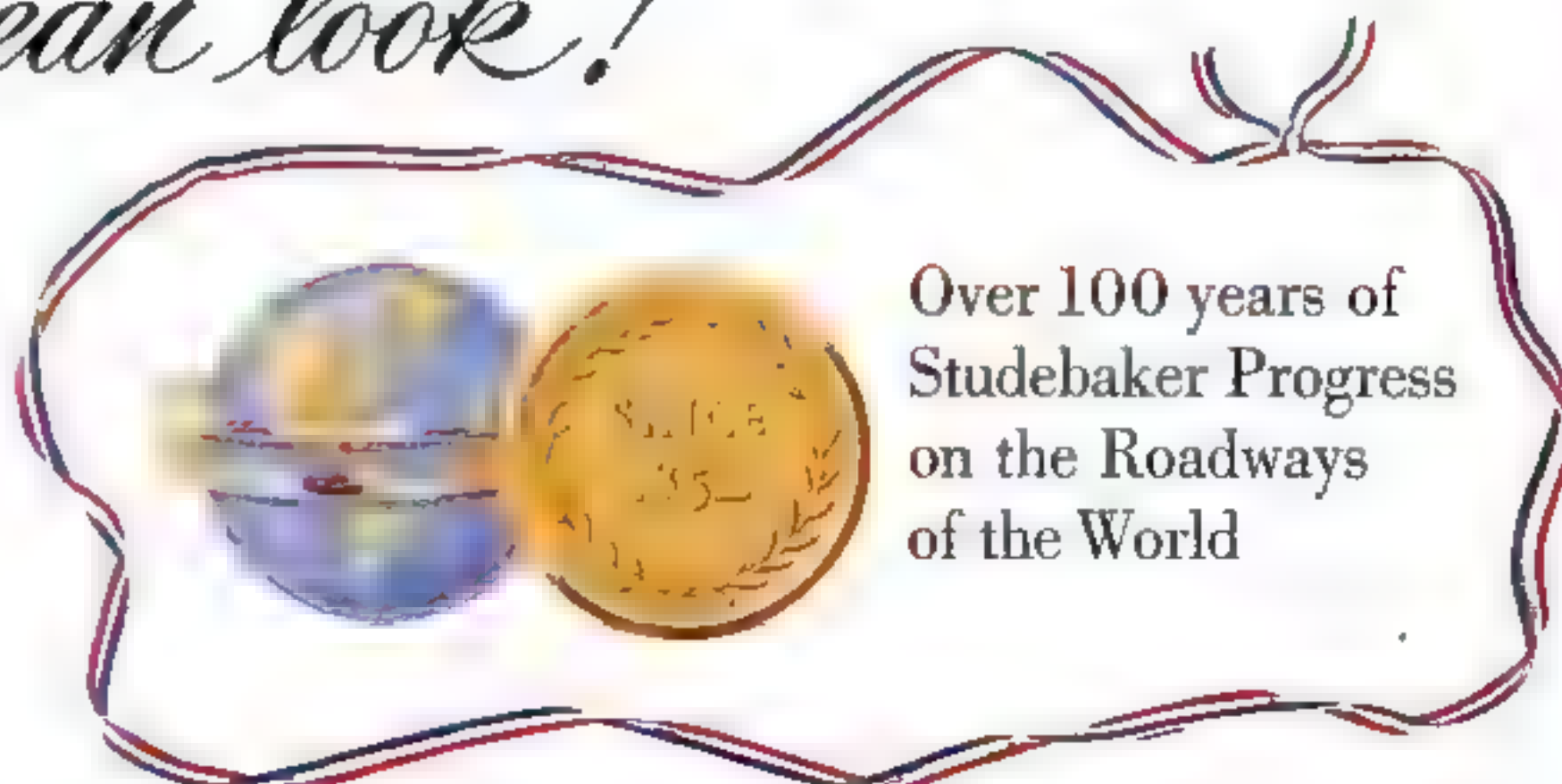
car with the European look!

This dramatic Studebaker gleams with enormous expanses of glass—it's completely new inside as well as outside—and it's finished and appointed to perfection.

More marvelous still, for all its continental distinction, this exciting 1953 Studebaker is down to earth in price.

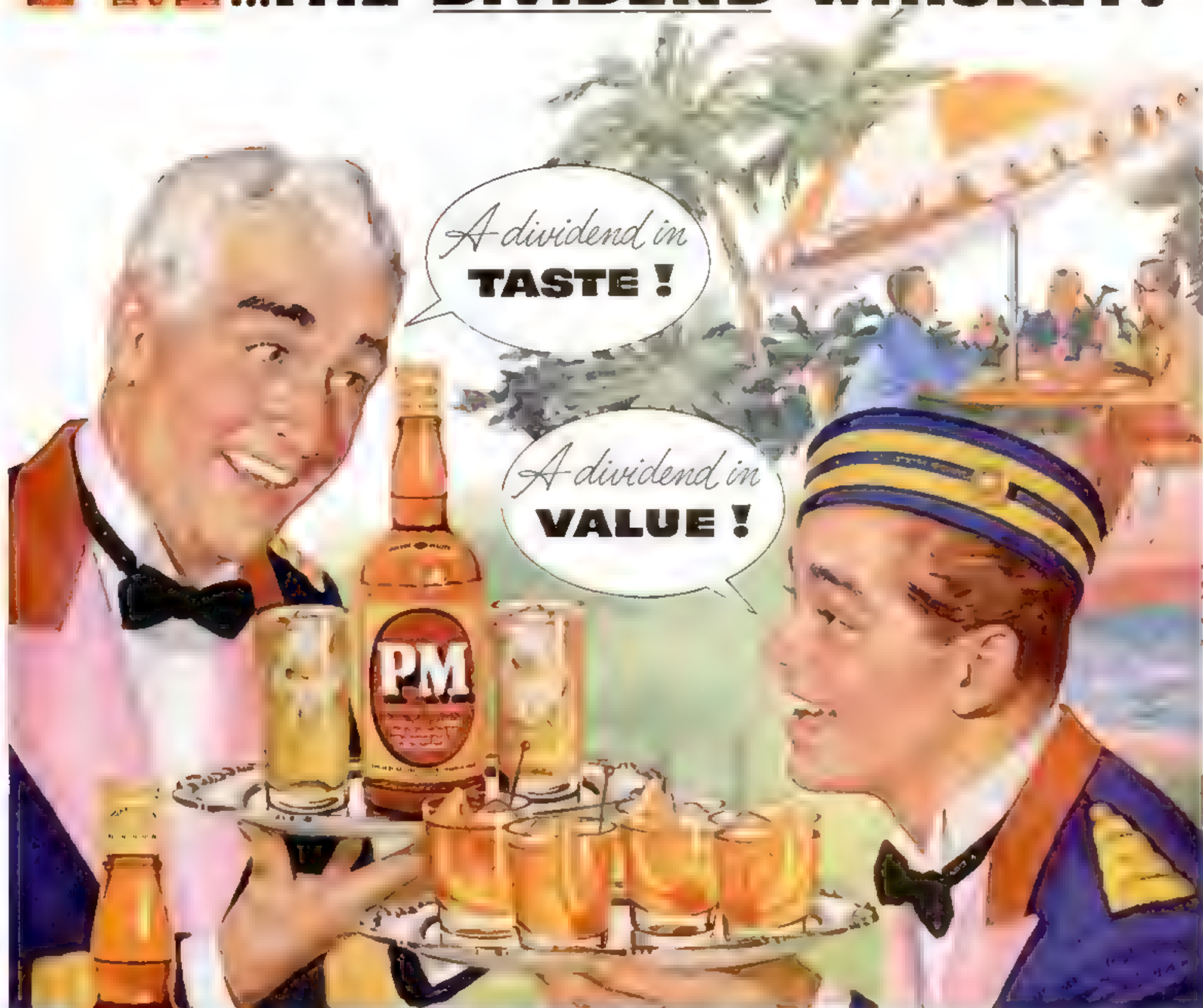
Stop in at a Studebaker showroom right away. See this new American car with the smart, sleek European look.

Among the many new operating conveniences of the far-advanced 1953 Studebaker is automotive engineering's newest and finest achievement in power steering—available in the Commander V-8 at moderate extra cost.



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At Palm Beach ... Smart Guests agree on **PM...THE DIVIDEND WHISKEY!**



You'll prefer **PM's** taste
to whiskies costing up to \$1.00 more
... and its lower price means you get
a dividend of as much as



4 EXTRA DRINKS!

*Enjoy today's
magnificent*

PM

the dividend whiskey

At Palm Beach guests could afford to enjoy most of the whiskies. More and more, they choose PM. They prefer its distinctive, no low taste to it — the world's most expensive blends.

Yet PM's modest price means you get 4 extra drinks with every bottle. Try PM tonight. You'd discover it's America's smartest buy!

© NATIONAL DISTILLERS PRODUCTS CORP. N. Y., N. Y. BLENDED WHISKY • 86 PROOF • 65% GRAIN NEUTRAL SPIRITS



BEVO FRANCIS (LEFT), BIGGEST SCORER IN COLLEGE BASKETBALL, STANDS ON THE CAMPUS WITH MOST OF THE 60 MALE STUDENTS OF HIS COLLEGE

BEVO GIVES A LITTLE OHIO COLLEGE A BIG LIFT

Rio Grande rises with the first basketball player ever to score more than 100 points in one game

The most spectacular player in college basketball this season is a tall (6 feet 9 inches) 20-year-old freshman at tiny Rio Grande College in Ohio. His real name is Clarence Francis but he is called Bevo, inheriting the nickname from his father who was fond of a prohibition soft drink of that name. One night last month Bevo went on a rampage in the dilapidated gym known on campus as the "hog pen." The score kept going up until, after Rio Grande's first 99 points, the gym's old black scoreboard stopped functioning. Bevo made 116 points to set a new scoring record and Rio Grande beat Ashland Junior College, 150-85. A few nights later Bevo's total for the season passed 1,051 to set another new record. Rio Grande suddenly bounced into the national limelight.

This sudden reversal was no more bizarre than the gangling phenomenon who caused it. Son of a poor clayminer from Hammondsville, Ohio, Bevo learned to shoot baskets in a barn. Although he did not have a high school diploma at the time, Bevo received 63 offers from colleges, turning them down in favor of Rio Grande, a coed institution of 125 students, whose gate receipts have jumped from \$19.05 last December to \$4,800 at a recent game. It hopes now to be invited to national tournaments where Bevo, who has never played against top teams, would get his toughest test.

TEAM	PLAYERS	POINTS	REB.	FOULS
P. G.	Francis	116	27	21
A. J. C.	...	85

SCOREKEEPER'S RECORD of Bevo's big night shows row after row of 2s indicating his 47 field goals. The solid circles at right are free throws made good.

BETTER THAN BEER?



**With an open bottle and an open mind
you can answer that question tonight!**

At Carling's we brew both beer and ale—and each is mighty popular. But more and more people are telling us Carling's Red Cap Ale gives them more pleasure than any beer they ever tasted. They say it's light and dry as the smoothest beer, yet with

that extra flavor—that "heart" which only a fine ale can provide. They call it the "light-hearted" ale.

Tonight, why not try it yourself? See whether you are one of those who find Carling's Red Cap Ale tastes even better than beer!

BETTER THAN BEER? TRY CARLING'S RED CAP ALE AND SEE!

© B. C. A.

GOOD EATING

CREAMETTES
MACARONI
MORE TENDER • MORE DELICIOUS

He'll Hanker
for Hamburgers with

A-1
SAUCE

the dash that makes the dish



Ask for A-1 when dining out, too.

**STOP PAYING
FANCY PRICES
for floor wax!**

**SAVE
up to
28¢
A PINT**

AEROWAX is GOOD wax

DOGS, DIETS AND DAISIES
You don't need anything but Rival Dog Food to feed your dog correctly. Change to Rival and he'll have everything he needs. Lots of meat. Nutritious grains. Natural vitamins. Chlorophyllin to keep him fresh as daisies! Honestly, you can't buy better than **RIVAL DOG FOOD**

COUGHERS!

**DOCTORS
AGREE
MENTHOL
BRINGS
RELIEF**



Luden's contains extra menthol. It's this extra menthol in Luden's Menthol Cough Drops that brings quick, effective relief.



Bevo CONTINUED

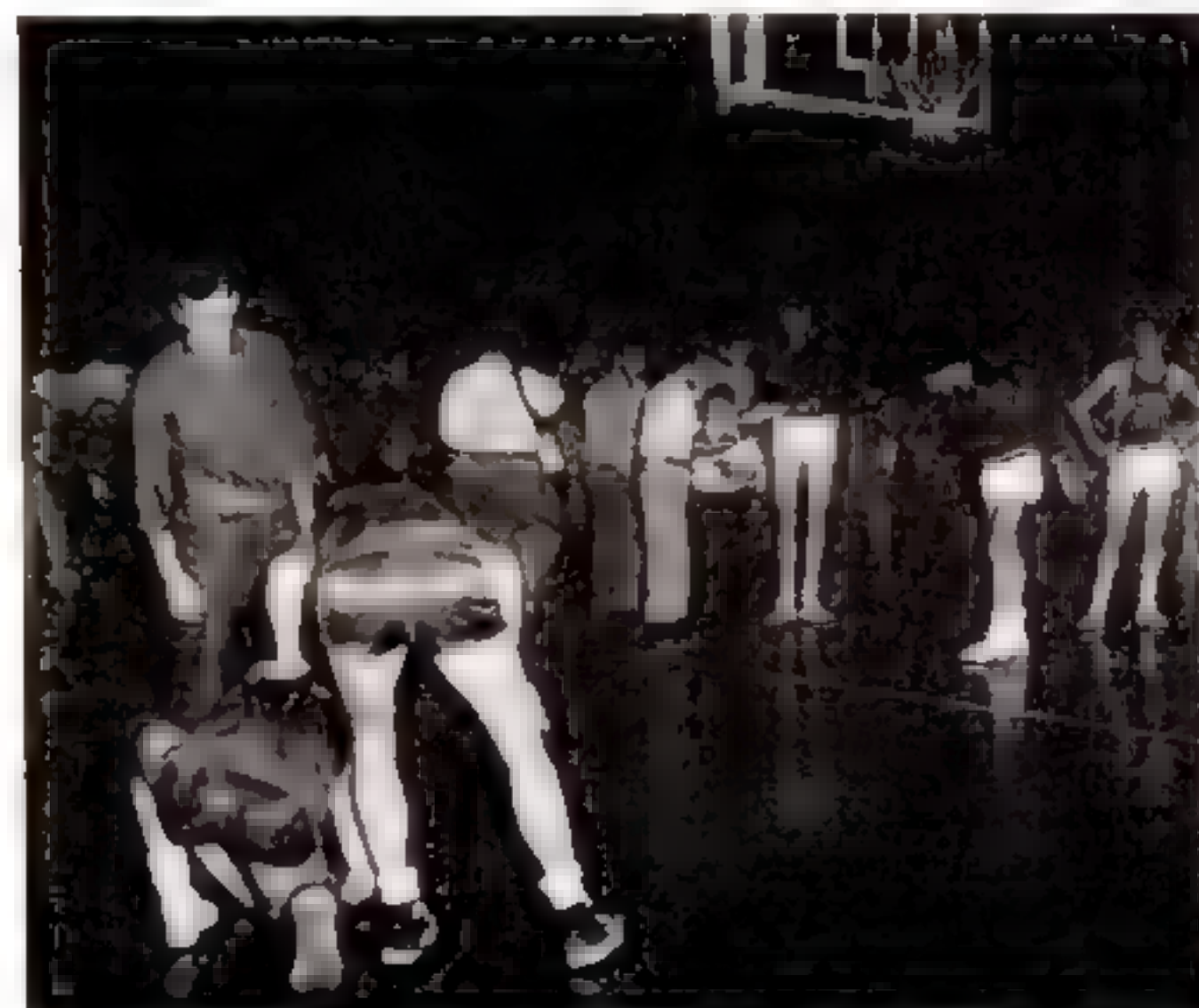
A BIG FREEZE COOLS OFF BEVO



ENFORCED LEISURE by Bevo (No. 19) and his mates, caused when rival Cedarville froze the ball, brings mutters from 7,451 spectators at Troy, Ohio.



OBJECT OF JEERS, Cedarville player stubbornly hugs the ball as coins and balls of paper thrown by annoyed spectators land on court around him.



AUTOGRAPH HOUNDS take advantage of the slowdown to get Bevo's signature. He scored only 38 points though Rio Grande won handily, 66-29.

CONTINUED ON PAGE 48

NOW the Greatest Mennen MIRACLE of all!

QUICKER THAN BRUSHLESS, CLOSER THAN LATHER!



SPURT!

SPREAD!

SHAVE!

Just press the button—out comes a puff of thick, white, active foam. Better than any brush lather!

Foam Shave covers your face instantly—softens your whiskers so your razor can mow 'em away!

Quicker than brushless! Gets down to "Pore Level"—closer than you've ever dreamed possible!

NO STICKY, CLOGGING CREAM!

... one rinse and your razor's as clean as a whistle! What's more, you don't waste time "lathering up." Foam Shave's new wonder-working formula instantly surrounds your whiskers with billions of activated bubbles—takes the fight out in seconds!

- Just spread it on—and go!
- No time-wasting razor clog!
- You save minutes in shaving!
- Your shave is much cleaner!
- You stay shaved much longer!
- Get Mennen Foam Shave today!



MORE THAN A
3 MONTH SUPPLY



Mennen FOR MEN!

For the Man in your Life!



because
*It's Every Ounce
a Man's Whisky*

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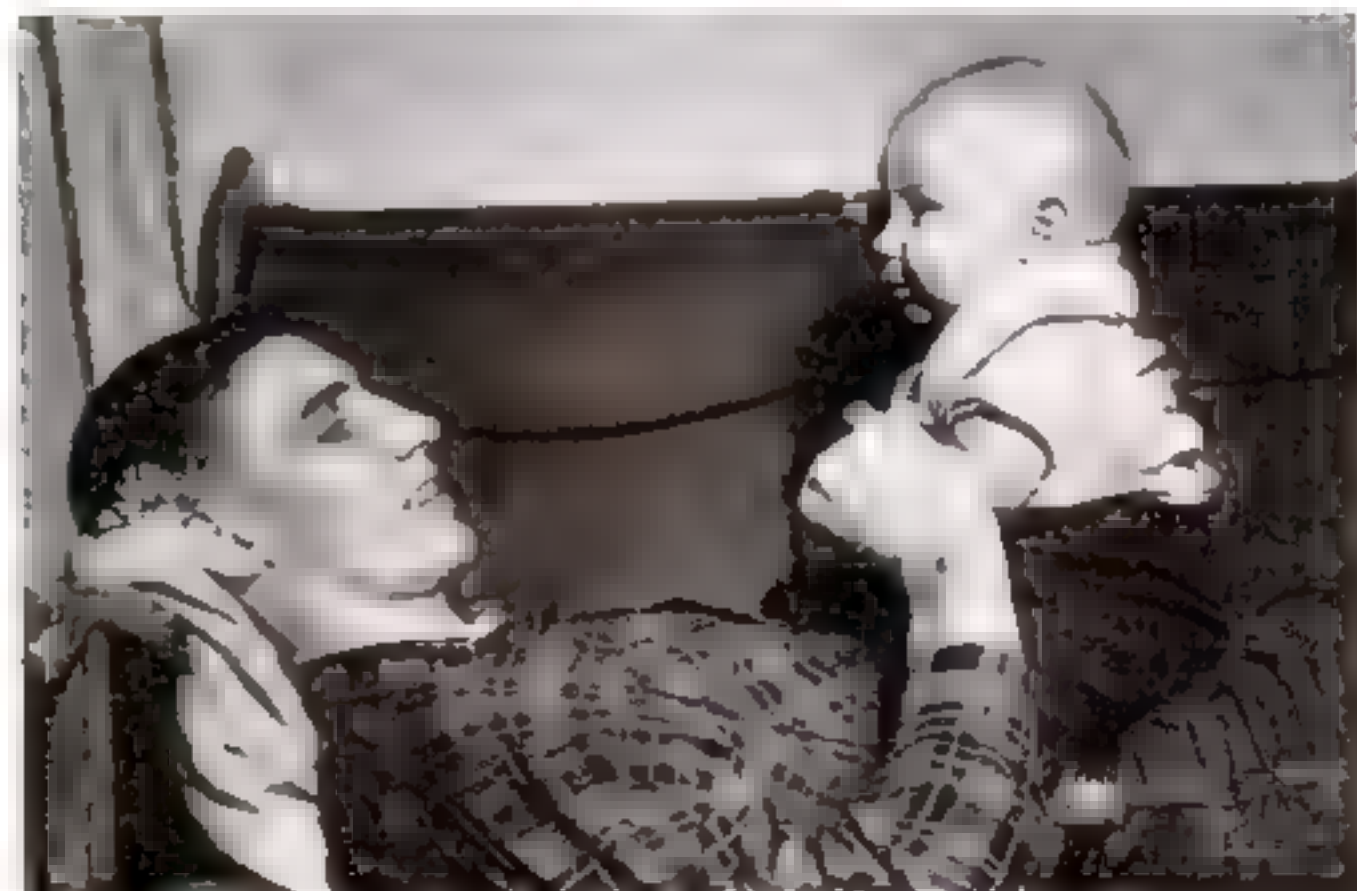
Bevo CONTINUED



ONE-HANDED PUSH SHOT, Bevo's forte, heads unerringly for basket in game against Wright-Patterson Field. Teammates have orders to feed him the ball. He does little defensive work, leaving almost all of it up to teammates.



POINT-CRAZY COACH, Newt Oliver, shouts for team to foul rivals so that Rio Grande can get possession of ball and give it to Bevo. Oliver, who had coached Bevo in high school, was main reason why player came to Rio Grande.



A FAMILY MAN, Bevo plays with 6-month-old son Frank in \$25-a-month apartment near school. Bevo, who gets some financial help from college, recently had to rush back to family farm and sell a hog in order to help pay his rent.

For a Treat
instead
of a Treatment...
remember...

OLD GOLD

*treats
You
right*



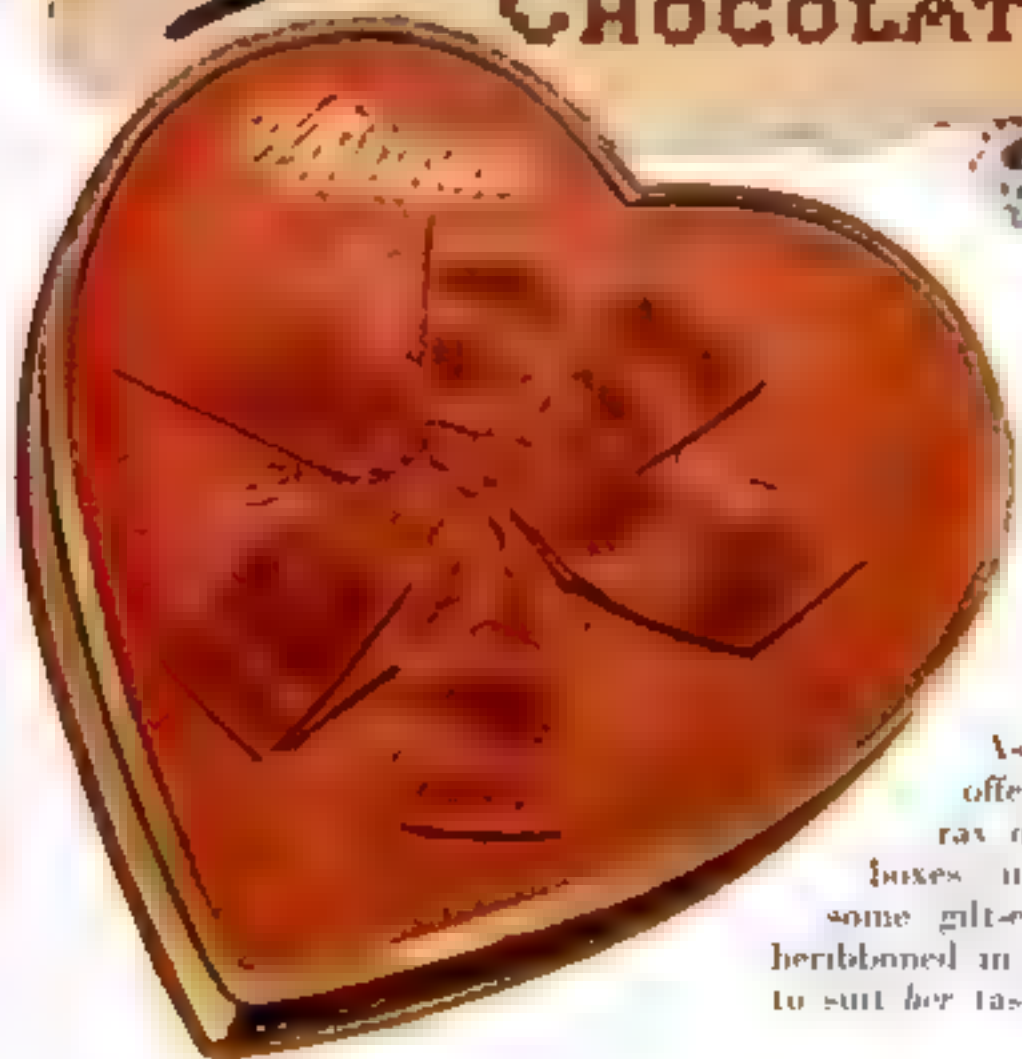
Enjoy today's most pleasing cigarette with this assurance: No other leading cigarette is less irritating, or easier on the throat, or contains less nicotine than Old Gold. This conclusion was established on evidence by the U. S. Government.

REMEMBER VALENTINE'S DAY, SATURDAY, FEB. 14

He
remembered!
Why don't you?

Elizabeth Taylor

Whitman's
CHOCOLATES



**WHITMAN'S
HEART BOXES**

As always, Whitman's offers a fascinating array of traditional heart boxes—in a choice of colors, some gilt-edged, all lavishly ribboned in satin. Choose one to suit her taste and your purse.

ELIZABETH TAYLOR

Co-starring in

"THE GIRL WHO HAD EVERYTHING"

An M-G-M Production



WHITMAN'S SAMPLER

The world's best-liked box of candy—appropriately decorated for St. Valentine's Day.

1 lb. \$2.00 2 lbs. \$4.00



A W O M A N N E V E R F O R G E T S T H E M A N W H O R E M E M B E R S

Suits

Turn Loose for Spring



NEW "TOUCH-ME-NOT" IGNORES THE WAIST

The snug little suit above which has been established for several seasons (LIFE, Feb. 26, 1951) may finally have to make way in the closet for a new generation of loosened suits. Spearheaded by recent collections of influential Paris Designer Balenciaga, the loose suit silhouette has reached the U.S. and is sprouting everywhere for spring. Closest in kin to the Paris originals is a suit with an unfitted jacket made of rough lightweight tweed (*left*). Other U.S. versions have shorter jackets which show off slim American hips, main requisite for wearing the new silhouette.

Suit terminology no longer hints at physical torture (nipped, pinched-in, stiffened) but leans toward the lyrically comfortable—"body freedom," "un-fenced-in feeling," "touch-me-not waistline." High-priced designers report that at least half their sales of spring suits are in the new loose style, which should also come up fast in less expensive lines since it almost eliminates complicated, costly fitting.

BULKY LOOK of loose tweed jacket is balanced by the narrow wool jersey skirt (Jane Derby, \$235).

COMING!

WORLD'S FIRST AND ONLY REFRIGERATOR THAT

Makes Ice Cubes
without trays

— and puts 'em in a basket

— AUTOMATICALLY!

Imagine! You simply reach in and pick out the cubes — one at a time or a handful! Servel replaces them as you use them! Refills your ice cube supply — then shuts off! All automatically! You'll have ice cubes by the basketful — extra-big, extra-cold, extra-long lasting *IceCircles*! All without the mess and muss of old-fashioned ice cube trays! Don't miss this refrigerator marvel of our time! See it — at Servel Dealers soon!

Servel

AUTOMATIC ICE-MAKER
REFRIGERATORS
GAS OR ELECTRIC

Servel Inc., Evansville 20, Indiana • In Canada, Servel (Canada) Ltd., 548 King St. W., Toronto, Ontario





MODIFIED NORFOLK JACKET of pink tweed has band at edge to give it shape (Hattie Carnegie, \$275). Most suit sleeves now end below the elbow.



LITTLE BOY SUIT has a short box jacket fastened with big pearl buttons (Ben Zuckerman, \$155). Shoulders are still slim, skirts remain same length.

CONTINUED ON NEXT PAGE

...relax in Canada

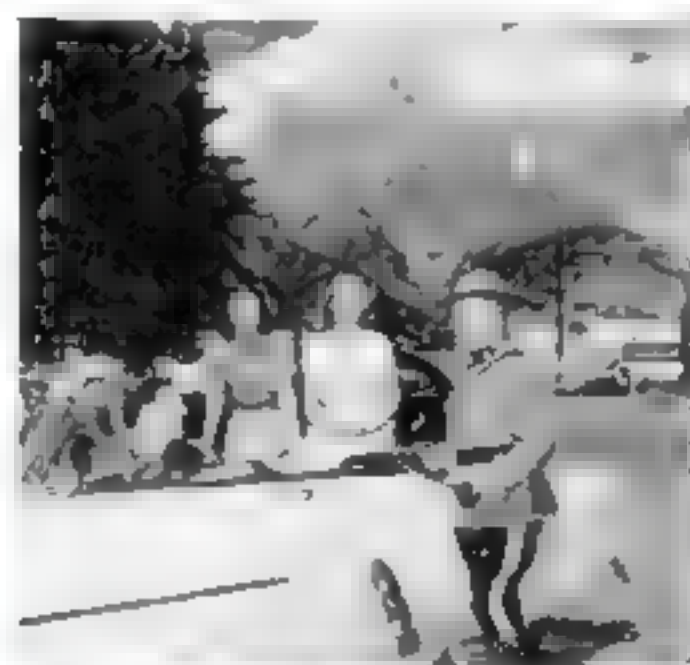
You'll find **VACATIONS UNLIMITED**
in this friendly neighbour-playland



CAREFREE sun-and fun days in lakeland resorts or seaside holiday havens are refreshing items on your pleasure programme. Go sailing, canoeing, swimming in "top" scenic spots. Meet interesting people at summer colonies, or sample log-cabin life. For a change, visit cities with a fascinating "foreign" flavour. You'll find a ready welcome everywhere you go.

COLOURFUL mountain wonderlands and vast National Parks invite you to stay and play. Drive modern highways. Golf, hike, ride. A camera paradise.

CATCHING tuna in championship coastal grounds, battling smaller "fighters" in secluded streams satisfies your sportsman's urge. See your travel or transportation agent soon; send coupon now.



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Department of Resources and Development, Ottawa, Canada

Please send your 48-page, full-colour book on
vacation attractions in all parts of Canada

Name _____
(PLEASE PRINT)

Address _____

Town _____ State _____



THRILLING NEW EUREKA ROTO-MATIC OFFERS YOU

Everything your heart desires -in a swivel-top cleaner!

ONLY \$69.95 fulfills your longing . .

"Please, give me a cleaner that combines all the features I've heard about . . .

"Swivel-top, no dust bag to empty, really powerful suction so my rugs look fresh and nice . . .

"A cleaner extra quiet, and light to carry, so cleaning day ends without shattered nerves or weary back . . ."

New and wonderful Eureka Roto-Matic offers all these wanted features, and more. Follow your heart (and common sense, too) . . . try it . . . soon.

Eureka Division Eureka Williams Corporation,
Bloomington, Illinois
In Canada: Onward Manufacturing Co.,
Kitchener, Ontario

Guaranteed by
Good Housekeeping

SO QUIET!

When you're baby sleeps,
no ghastly clatter or rattle is heard.

GETS IT ALL!

Not just dirt on super-powered
suction. Dyes, dirt, hair
& soap suds disappear instantly!

CLEANS ALL OVER
FROM ONE POSITION

ADJUSTABLE SUCTION!

Another extra suction
reduces for non-dull cleaning
of draperies, scatter rugs.

TOOLS CLIP ON!

Wonderful step-saver.
Attach O-Matic on a way
where wanted when wanted
Eureka use usive

NO
DUST BAG
TO EMPTY
of course

-and you save
\$20 to \$30 with

EUREKA
Roto-Matic
SWIVEL-TOP CLEANER

IMAGINE! ONLY

\$69.95

Complete with deluxe tools



LOOSE SUTTS CONTINUED



COMPROMISE JACKET is made for women who still want to have the recently popular small waisted look. It is stylishly loose but it is also brief enough to show unbelted, fitted waistline of slim sheath (Harvey Berin, \$110).

Flexible . . . massages as it cleans! Dogs love it—for the bath too!

Get your dog this new

Pard

CURRY-COMB BRUSH!



● Round-end bristles can't irritate skin . . . made of soft, flexible polyethylene

● Perfect scrub brush for bath (it floats!). Hottest water won't harm it

● Unbreakable, flexible—"gives" with your hand

● Bristles and all are molded as one solid piece. You can't even pull them apart!



**\$100
VALUE
YOURS FOR ONLY**

35¢

with the front panels from two-canned Pard labels, or one red box top from the 2-lb. or 5-lb. carton of Swift's Pard Meal.



So soft, so soothing . . . yet combs out snarls and tangles better than any scratchy wire-type or stiff bristle brush you've ever used!

PARD . . . Tempt your dog with red, raw meat—he'll pass it up for Pard!
Swift's PARD MEAL
Here's the dog meal with flavor he can't resist!



CLIP THIS ORDER BLANK NOW!

Dog Brush, Dept. D, Box 6309, Chicago 77, Ill. (Canadian write Dog Brush, Box 1572, Toronto, Ont.)

Please send me:

☐ Pard Curry-Comb Dog Brushes @ 35¢ each. Enclosed are front panels from _____ canned Pard labels and _____ in coin or money order.
☐ Pard Curry-Comb Dog Brushes @ 35¢ each. Enclosed are _____ red box tops from 2-lb. or 5-lb. Swift's Pard Meal cartons and _____ in coin or money order.

NAME _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

Note: Money orders should be made payable to Swift & Company. Offer expires Sept. 30, 1953, or when supply is exhausted. Offer good only in U.S.A. and Canada. Void where prohibited, taxed or otherwise restricted. Allow three weeks for delivery.

Here's a real bargain for you, a real break for your dog! He'll love to be cleaned, massaged, *and bathed* with this brand-new kind of brush. And you'll be amazed how easy it is for you to handle, how smoothly (in spite of its softness and pliability) it removes snarls and dead hair, how brilliant and sleek it keeps his coat when you use it often.

Here's the dog brush you've *both* been waiting for! Don't miss this bargain opportunity to get yours!



On your mark—get set—

YOU won't believe it till you try it yourself — but this is what happens.

You're at the wheel of a 1953 Buick, ready to move when the light changes.

It does. You press the gas pedal.

Before you take two breaths—and in one mighty sweep of power—you're up to 30 miles per hour, local law permitting.

That, mister, is getaway, in any man's language — swiftest of any Buick in fifty years.

But it's also *hushed* getaway—with little sound or sensation of engine rush.

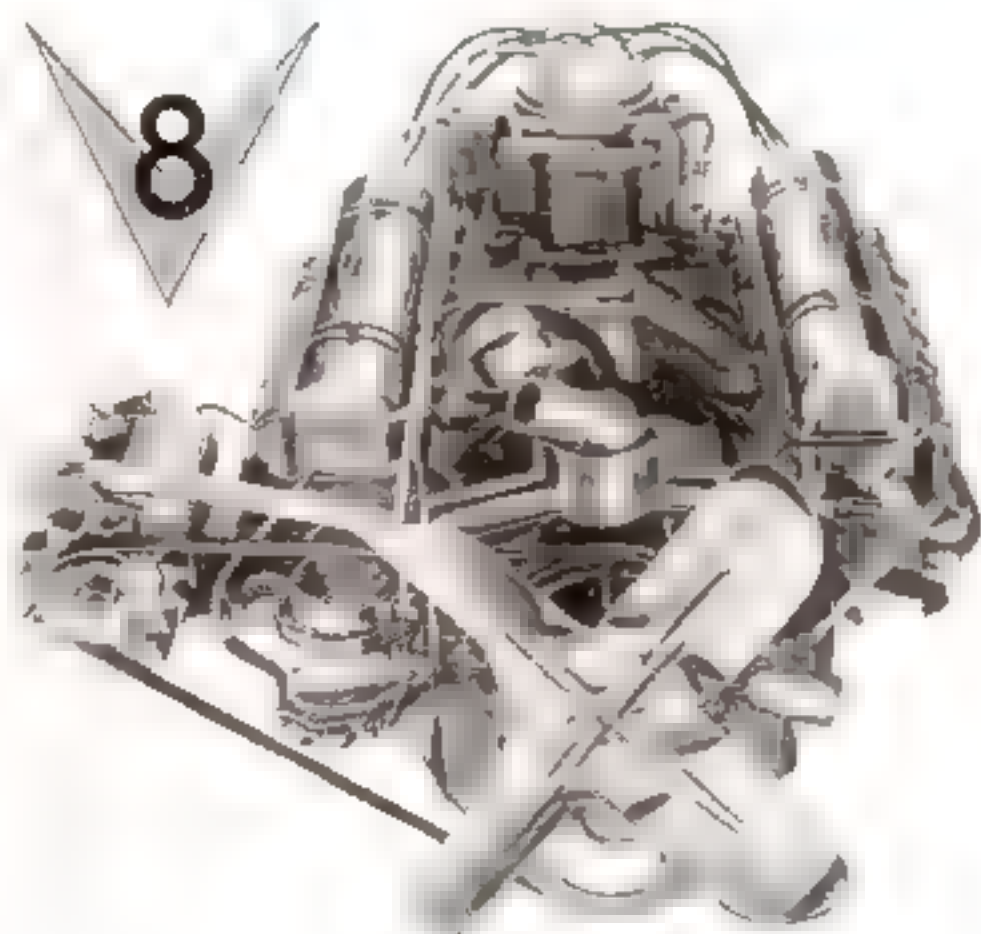
And, of course, it's absolutely and astonishingly *smooth* getaway — with no jerk, no lurch, no shift of mechanical linkage of any sort.

What works this wonder is a Dynaflo Drive* with two turbines instead of one—a simpler, more powerful and far more efficient Dynaflo than ever before.

Acceleration is increased 20%, but with substantial decrease in engine revolutions — which means you get underway quicker, and with less engine speed, less getaway sound.

But that's just half the story.

The other half is in power—engine power—the highest horse-



Most Advanced V8 Engine In The World powers the 1953 Buick ROADMASTER and SPECIAL. 8.5 to 1 compression, vertical valves, and a host of other exclusive engineering features add to its spectacular performance. Newly designed F-263 Fireball Engine, with record high horsepower and compression, puts new brilliance and thrift in the performance of the budget-priced Buick SPECIAL.



When you set this little lever in "Drive" position, a brand-new Dynaflo Drive goes to work. With Twin Turbines instead of single, it is now a simpler unit—with only four instead of the five parts formerly used. Ratio is up to 2.45 to 1—which means more power, higher efficiency. End result: much faster and quieter acceleration, less engine revolutions — and infinite smoothness through all speed ranges.

SEE YOUR NEAREST BUICK



!!! with ***Twin-Turbine Dynaflow***

Television treat—the BUICK CIRCUS HOUR—every fourth Tuesday.

powers and the highest compression ratios, Series for Series, in Buick's fifty great years. And it's power that gets more miles from each tankful of gas.

It all adds up to a performance story that could never be written before—a performance story that puts new thrill in every mile you drive.

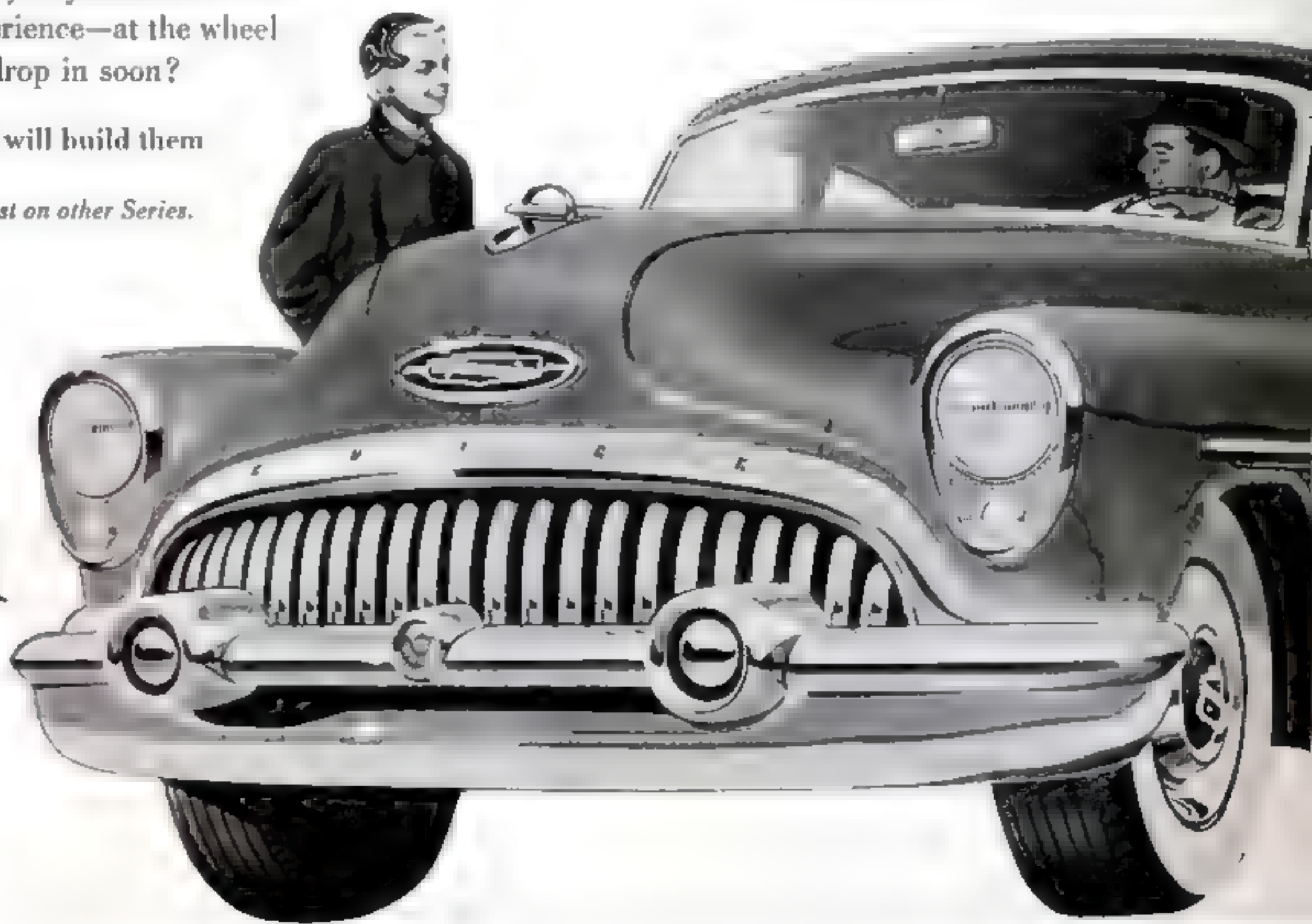
As we said—you won't believe it till you try it yourself. So we cordially invite you to this eye-opening experience—at the wheel of a Golden Anniversary Buick. Why not drop in soon?

When better automobiles are built Buick will build them

**Standard on Roadmaster, optional at extra cost on other Series.*

The greatest
BUICK
in 50 great years

DEALER



THE MIRACLE OF THE

To me the sea is a continual miracle,
The fishes that swim—the rocks—the motion of the
waves—the ships with men in them,
What stranger miracles are there?

WALT WHITMAN, *Miracles*

FROM the beginning men have recognized the sea as a supreme wonder and paradox of the natural world—at once a thing of beauty and terror, a barrier and a highroad dividing and uniting mankind, a source of life and a fearful and capricious destroyer. The sea poets of every land have sung in exaltation of its sunlit moods and in awe of its fury and fathomless deeps.

Today in the wider perspectives of man's awareness of the universe it has become clear that the sea is in many ways a miracle. We know now that we are dependent on the sea not only for certain accessories of existence but for the very character of existence itself. The entity called life emerged from the sea; the basic fabric of all living things was initially determined by it; the entire system of nature composing man's "environment" is governed by it. More than any other physical feature of the planet it is the sea that makes the earth unique.

If somewhere in space an extraterrestrial astronomer should examine our solar system he might name our planet Sea rather than Earth (a word connoting land or soil). For the characteristic that would impress itself most vividly, setting us apart from other satellites of the sun, is the great glistening sheath of water that permanently envelops nearly three quarters of the globe. No other world in range of man's vision has a sea. Mars discloses ice caps, some moisture, perhaps vegetation, but no sea. Mercury appears to have no water at all. Venus lies veiled behind dense clouds which, unlike the clouds of earth, probably contain neither oxygen nor water. The outer planets are too cold to have a sea—the temperature of Jupiter rests at 216°F. below zero, that of Saturn at 240° below.

But our earth is nearly drowned in water. Only 29% of its entire crust climbs above the great oceans that hide all the rest of the planetary surface under a liquid overlayer approximating two miles in depth. South of the equator the seas engulf 81% of the hemisphere. If all the land areas of earth—continents, islands, mountains—were somehow torn from their foundations and hurled into the sea, they would displace only 1/10th of the total volume of water in the ocean basins. And if all the irregularities in the earth's crust were somehow ironed out, reducing the planet to a perfectly smooth sphere, the seas would then completely submerge the globe beneath a uniform cover about 8,000 feet deep.

As he does with so many other aspects of his dependence on the manifold of nature, man takes for granted the abundance of water with which the earth is endowed. For, in a special sense, the miracle of the sea is the miracle of water. Only a few men of deep perception have ever realized this. St. Francis of Assisi, on his deathbed, composed a prayer containing the lines, "Praised be Thou, my Lord, for sister water, which is very useful and humble and precious and chaste," and thus with the insight of saintly humility affirmed his gratitude for a surpassing gift. Similarly, in desert regions or times of drought men have acknowledged the worth of water. But the thought is always of fresh water—as if the salt sea, the ultimate source and reservoir of virtually all the earth's waters, fulfilled no function in the acquittal of man's needs.

Yet, in the universe as a whole, liquid water of any kind—sweet or salt—is an exotic rarity. Even in the lesser dimension

of man's own terrestrial existence, water stands as one of the most remarkable compounds in nature, upon whose unique properties most of the features and processes of his physical environment—the atmosphere, the weather, the soil, and all living things—ultimately depend. For example, nearly all material substances expand when heated and contract when cooled (e.g., the mercury in a thermometer). And so does water—save for a crucial anomaly: upon freezing it reverses the contraction process and expands by 9%. And this is the reason that ice floats on the surface of all lakes and rivers, instead of sinking to the bottom. Although the properties of salt water differ somewhat from those of fresh water, sea ice also floats—a fact of crucial importance to the climate and ecology of the world. For if ice sank, the cold seas of the earth would be frozen solidly, save for a thin layer of melt water in the summer months—and so the interchange of warm and cold currents that serve to moderate and regulate the temperatures of the earth would be profoundly impaired.

There are other peculiarities of water, still not fully understood, that affect the whole edifice of life on earth. Its heat capacity—highest of all liquids and solids in nature save for ammonia—enables it to absorb and store vast quantities of heat, so that the oceans are in effect great reservoirs of solar energy, helping to prevent climatic extremes. Water dissolves more substances than any other liquid—and it is this property that helps make the sea a repository of minerals and sustains the processes of erosion and sedimentation—the never-ending washing away and sweeping away of minerals and salts, sand, silt and soil from the land to the sea. These substances remain forever in the sea, providing rich nourishment for the minute organisms on which all marine life depends. Perhaps most important of all, the freezing point and boiling point of water are, by comparison with related compounds, extraordinarily high; hence it can subsist in the liquid state within the temperature range given to the planet Earth. For contrary to common belief the liquid state is exceptional in nature: most of the matter in the universe seems to consist either of flaming gases, as in the stars, or frozen solids drifting in the abyss of space. Only within a hairline band of the immense temperature spectrum of the universe—ranging through millions of degrees—can water manifest itself as a liquid.

It is surely no accident that life as we know it exists only within this same tenuous temperature band. While insulated animals inhabit the frozen wastes of earth and a few simple organisms exist in hot springs, the temperature limits of living matter fall well within the temperature limits of water. Nor should this cause surprise, for all living things not only use water but are largely made of it. The human body is about 70% water, of which one third is in the blood and other body fluids, and two thirds lies within the walls of living cells. It is, moreover, a fact of deep evolutionary significance that the chemical composition of man's blood is similar to that of sea water—in it swim all the elements of the sea though dispensed in different proportions. One reason is that we came originally, all of us, from the sea.

And the waters of the land originate—and come daily—from the sea. The great ocean basins of the planet hold some 300 million cubic miles of salt water. From this vast store 80,000 cubic miles of water are sucked up each year by evaporation and then returned by rainfall and the flow of rivers. More than 24,000 cubic miles of rain descend each year over the continents, replenishing the sweet water lakes and streams, springs and water tables on which all the animals and

Illustrations by JAMES LEWICKI
Perspective maps by RICHARD EDES HARRISON
Charts by ANTONIO PETRUCELLI
Photographs by
FRITZ GORO, N. R. FARBMAN, COLES WESTON
RAY ATKESON, CAROLA GREGOR
J. DIXON SCOTT, MARGARET BOURKE WHITE

by LINCOLN BARNETT

SEA

The enveloping mantle of water, unique to the planet Earth, governs the entire system of nature in which man dwells



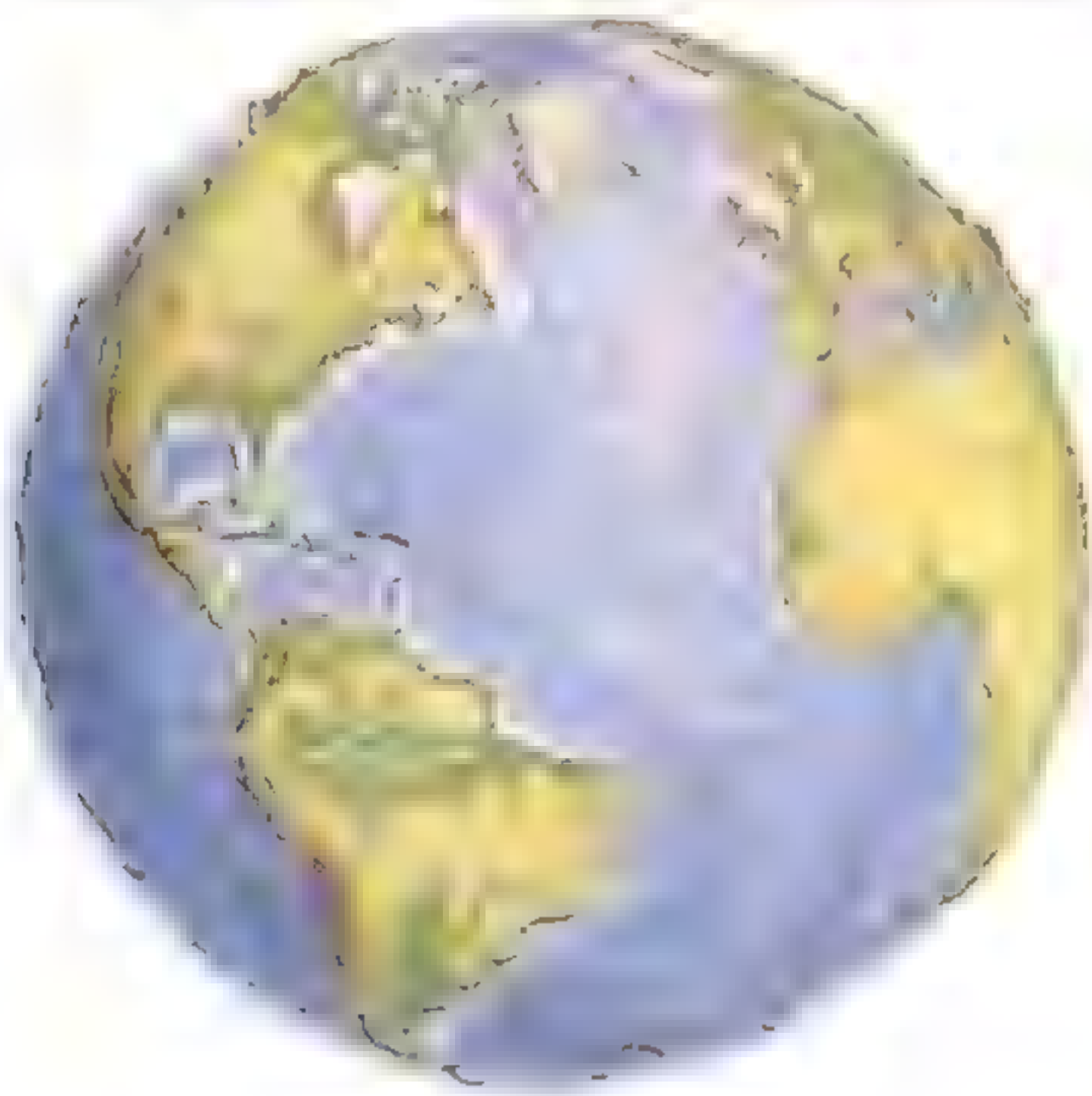
"BEHOLD THE SEA, The opaline, the plentiful and strong . . ." Here along a rocky California coast the white spume of angry surf glows in the sunlight of a winter dawn. Stirred by the winds of an off-shore gale, these foaming breakers

batter and land rock in the endless battle between sea and land on the waves of other oceans lapping at the shores around the earth. Yet another day, another season, the turbulent sea will slap gently at the foot of the tranquility



FROM MEXICO TO THE AZORES the Atlantic extends northeastward over the flat floor of the western basin, the volcanic rise at Bermuda, the submerged mountains of the Mid-Atlantic Ridge. Color scale at right shows the relative elevations of the land and depressions of the sea. The North Atlantic's deepest hollows are in the Cayman Trench (23,718 ft.) and in the Puerto Rican Trench (28,200).

THE ATLANTIC, owing to its many arms—like the Caribbean and Mediterranean—has more miles of coastline than the Pacific and Indian Oceans combined. In this view from the upper atmosphere the Mid-Atlantic Ridge can be seen winding down the middle of the ocean, dividing it into several basins. Most of the ridge lies 9,000 feet below the surface, though its highest peaks emerge as islands.



MIRACLE OF THE SEA CONTINUED

plants of land depend for life. Out of this intricate skein of natural processes and the miraculous properties of water, the slender thread of organic existence has been spun. So in the end the miracle of the water is the miracle of the sea.

To the question, "How were the seas created?" there have been many answers. The author of the 95th Psalm sang simply, "The sea is His and He made it." Today scientists reply that the earth's waters came from volcanoes—from the interior of the terrestrial sphere. Sealed in the heart of the young planet from the beginning, water vapor and other gases erupted to the surface as the interior cooled, forming a dense pall of clouds which subsequently dissolved in the greatest deluge of all time (see "The Earth Is Born," *LIFE*, Dec. 8, 1952). Most authorities agree that this first great flood could not have filled the ocean basins as they are filled today, or indeed supplied much more than 20% of the water that now laps high on the continental ramparts. But for thousands of centuries thereafter, as the earth's interior continued to cool and contract, new water was squeezed to the surface and disgorged by volcanoes through fissures in the ocean floor until, perhaps a billion years ago, the seas rose to their present levels.

The first men to set sail on the great waters outside the Pillars of Hercules believed that the ocean was infinite, flowing forever around the world like a great river, the final and inviolable frontier of the known. The Greeks called it *Oceanos Potamos*, the Ocean River. Until barely yesterday—a mere heartbeat ago in terrestrial time—the Atlantic horizon marked the terminus of Western man's affairs, the edge of the void. Beyond, in Milton's words, lay only "a dark/ Illimitable ocean, without bound,/ Without dimension; where length, breadth, and highth,/ And time, and place, are lost." And in a modern sense *Oceanos* is limitless. There are no separate oceans, there is only the sea, single and all-encompassing, girdling the planet, moving from deep to deep. In the watery wastes between Cape Horn and Antarctica the oceans are literally one; here a fated ship could sail east or

west until time's end without ever sighting land. But northward the continental land masses trisect the sea longitudinally into three great "gulfs" and it is these that geographers recognize as oceans; the hour-glass-shaped Atlantic, the heart-shaped Indian Ocean, and the elliptical Pacific. Some identify the ring-shaped Antarctic as a fourth ocean; the Arctic or North Polar Sea is conventionally assigned to the Atlantic.

Today the mystery that long enshrouded the surface dimensions of the sea has been dispelled, for ships have crossed and crisscrossed its farthest mist-hung wastes. But the dimension of depth remains to stir men's imagination and conjecture. Though in respect to the terrestrial globe the oceans represent but a thin film of water, it is the land beneath this film that beckons now as the last dark boundary of the planet—"throne of the Invisible." Until the last half century few could even imagine the configurations of the oceanic abyss. Common assumption envisaged the sea basins as featureless—flat, drowned plains, stretching for league after lightless league across the great hollows between the continental walls. Knowledge of undersea topography was limited to shoal waters, for the operation of measuring depth with hemp ropes and sounding leads—the only method known prior to 1870—was a cumbersome and costly one. It often took several hours or an entire day for a single finding. Even after the development of more efficient wire gear the picture of the deep ocean floor remained fragmentary. By 1895 the world's navigation charts included only 7,000 soundings in depths greater than a mile (one per 12,000 square miles) and only 550 in depths of more than three miles.

So, for all the proud claims of 19th Century science, man could not truly say he knew the profile of his own planet—but only that three tenths of it which appeared above water. Then in 1920 came one of the most important developments in the annals of hydrography—sonic soundings, the method of measuring depth by timing the interval necessary for a sound impulse to travel to the bottom and back. Thus instead of taking hours, measurements were reduced to seconds, even in the deep sea. And soon soundings from many parts of the oceans

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THE PACIFIC engulfs nearly half of the earth, extending from the nearly land-locked North Polar Sea to the endless ring of waters around the Antarctic continent. The ocean floor is serrated with many island festoons, incised by deep trenches, and embossed with more than 500 newly discovered submarine mountains. Below Alaska rises one of the longest, highest escarpments on earth.

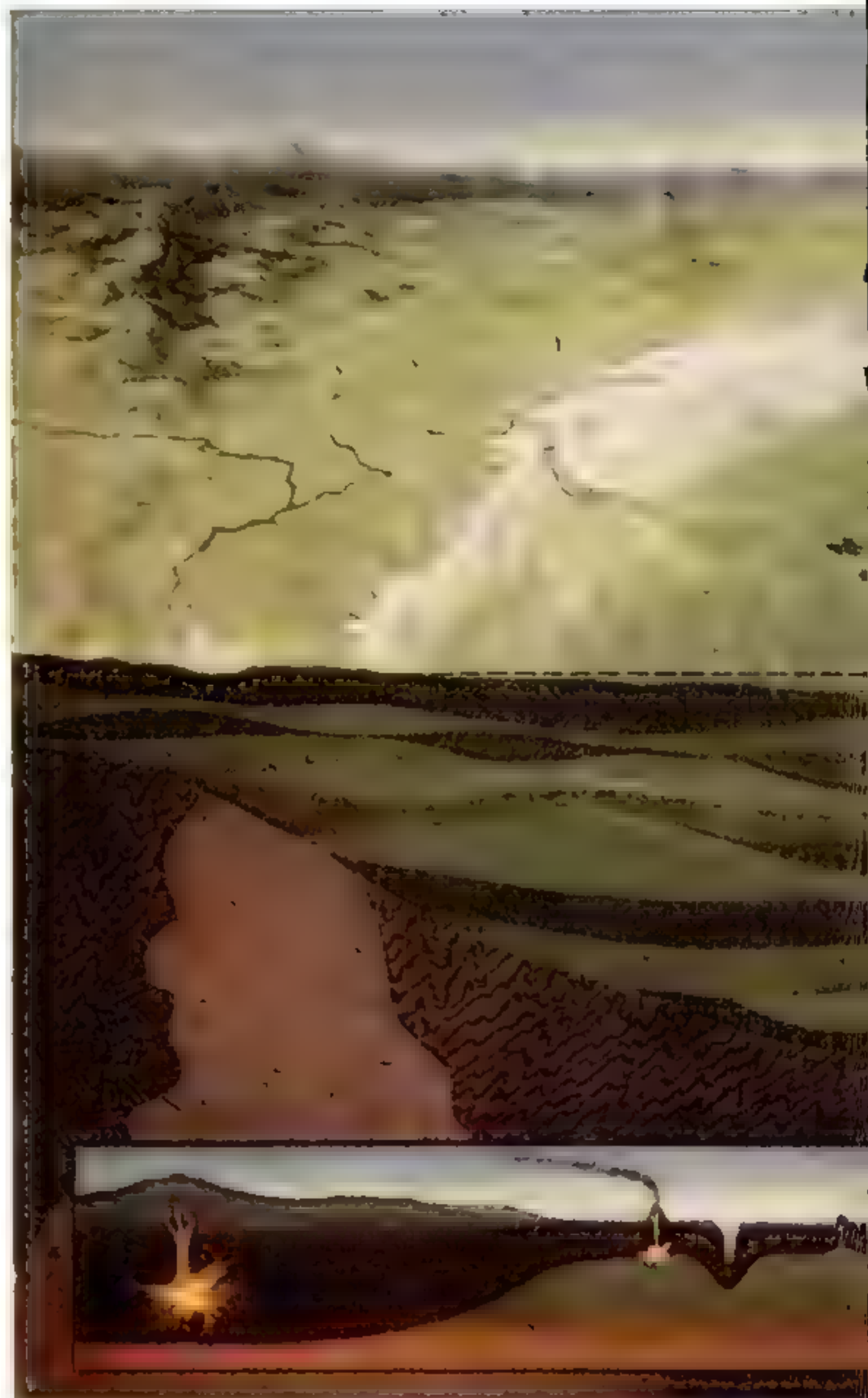
FROM NEW GUINEA TO THE ASIAN COAST the Pacific floor reveals contours more varied and rugged than any on the planetary surface. The earth's deepest abysses are in the Philippine Trench (34,578 ft.) and the Mariana Trench (35,610 ft.). The Mariana Islands constitute a volcanic mountain range 500 miles long. In the distance lie the shoal waters of the great continental shelf of Asia.





IN A CANYON'S MOUTH at base of a continental slope, jellyfish, viperfish, sea devils, sea cucumbers, quill worms live through lightless depths a mile below a plane of sun. Catfish in background is a slither sea-horse of green, coral and sand, similar to one that broke the Atlantic cables in 1929.

ON A MOUNTAIN LEDGE, early two feet long and prawns, sea anemones, ribbon worms, zoos, sponges, shell fragments, still collect matter or work at evening light. The rock pinnacle at left is an outcrop of volcanic basalt. The snowlike sediment fringing it is an organic surface once

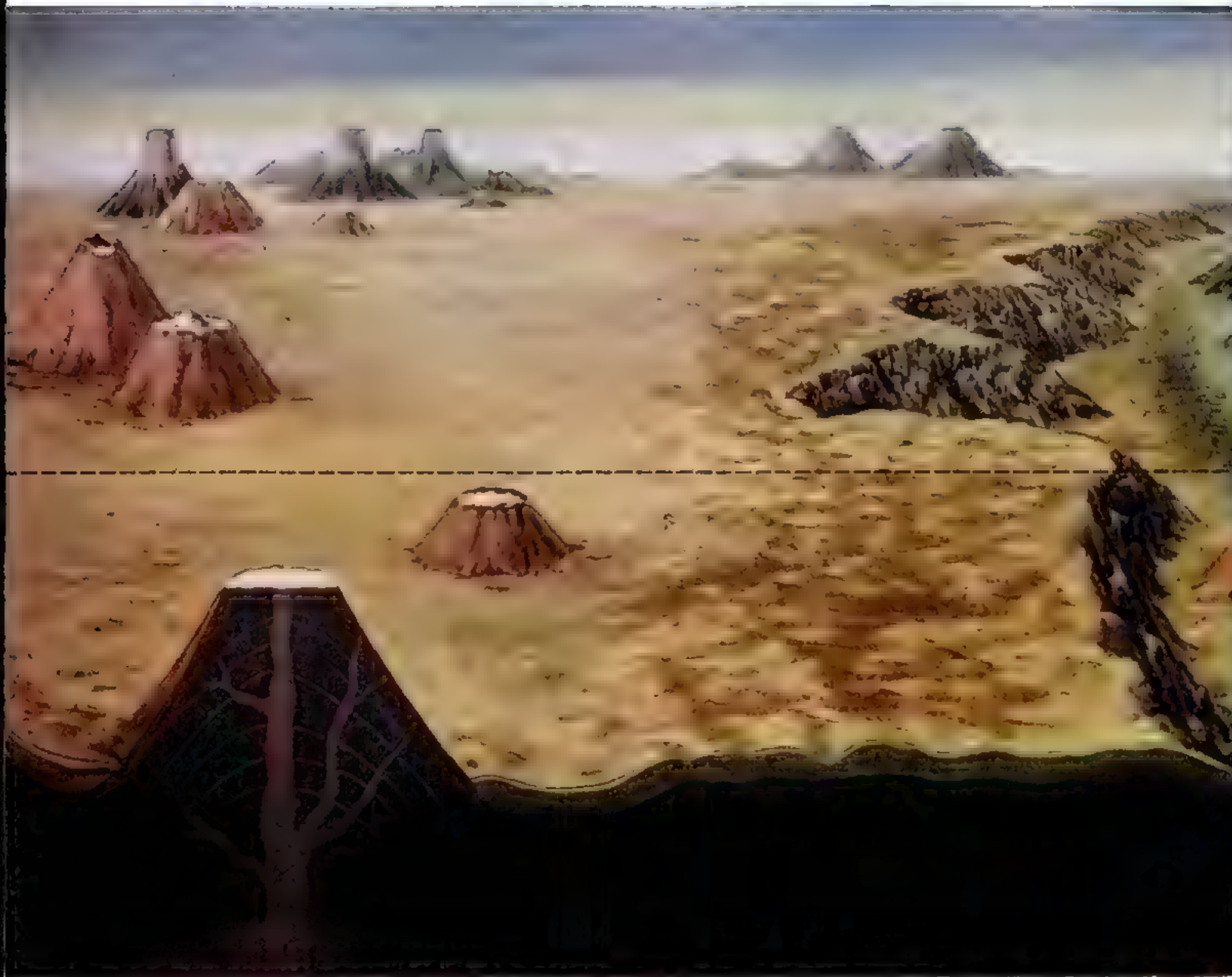


ATLANTIC SEASCAPE, drained of its waters, exhibits plains and mountains, canyons and escarpments no higher than any visible to man. At left is a characteristic Atlantic continental shelf, built of thick masses of sediment, slanting

MIRACLE OF THE SEA CONTINUED

began accumulating—faster than they could be plotted on hydrographic charts

Today many unseen contours of the deep sea basins have taken form, and it is possible to visualize sections of the planet Earth as it would appear if stripped of its leveling mantle of water. Its image bears little resemblance to the familiar cartographer's globe or to the conceptions of those who pictured the sea floor as an undifferentiated plain. The submarine landscapes of the planet exhibit all the variety of those above the surface, together with a scale and grandeur such as the eye of man has never viewed in his domain of light and air. As on land there are mountain ranges, volcanoes, cliffs, plateaus and plains. Valleys and deep gorges furrow the floor. But the dimensions are more majestic—many mountains are higher, many ranges longer, many canyons and gorges immensely deeper. If the earth's topmost pinnacle, Mt. Everest (29,002 feet), were dropped in the deepest part of the ocean, it would be submerged with a mile of water above its summit. But there are differences other than those of scale. All the mountains and elevations of land wear the scars of the never-ending surgery of wind, rain and running water. But except for undersea landslides and the mild erosive action of deep currents, the mountains of the ocean



PACIFIC SEASCAPE, whose generalized features are shown above, warps downward into abyssal trenches and is studded with flat-topped sea mounts or Guyots which marine geologists believe to be drowned volcanic islands. Around the bases

of some sea mounts are moatlike depressions, hinting that the underlying rock may have sagged beneath the weight of the Guyot above. Erosion debris and coral skeletons on their flat tops suggest that they lay exposed to air and the planing

MIRACLE OF THE SEA CONTINUED

by submarine volcanoes, lumps of manganese and iron, and mysterious magnetic spherules believed to be fragments of meteorites from outer space. Many of the midocean basins are streaked with occasional layers of sand. How did the sand arrive in the middle of the deep sea? Alternative theories suggest that it was transported by wind or by turbidity currents meandering across the deep sea floor.

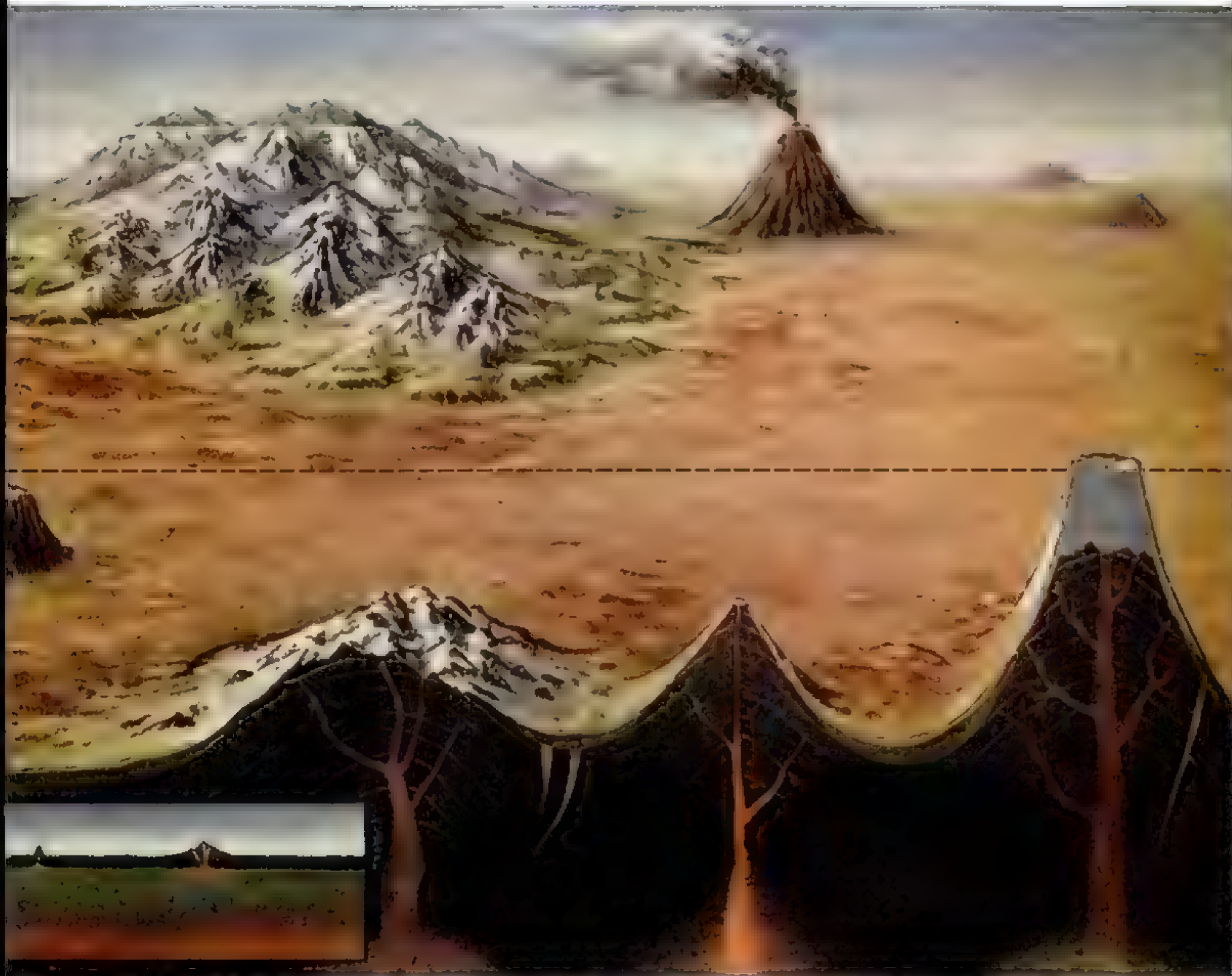
Of all the unseen scenery of the sea, perhaps none has so evoked the wonder and curiosity of marine geologists as the great mountain ranges whose treeless, snowless, sunless peaks and pinnacles rise out of darkness into darkness, wrapped in eternal night. The greatest of these is the Mid-Atlantic Ridge, which winds down the middle of the North and South Atlantic oceans from Iceland almost to Antarctica. First discovered nearly a century ago during the laying of the transatlantic cable, the ridge is now known to be the mightiest single mountain system on earth—at least 10,000 miles long and 500 miles wide, more than twice the width of the Andes, and with many peaks loftier than most continental mountains. Although for most of its length its summits lie a mile or more below the surface, here and there a peak emerges into the world of air. These are the scattered islands of the Atlantic—Ascension Island, the Rocks of St. Paul, the

Azores. The highest of all, Mount Pico of the Azores, towers 7,613 feet above the surface of the sea and plunges 20,000 feet below the surface.

Lesser ridges emboss the Pacific and Indian Ocean beds. The Hawaiian Islands represent the peaks of a 1,600-mile-long range that divides the Central Pacific Basin. The Hawaiian volcano Mauna Kea is the highest mountain on earth, a great lava dome rising about 31,000 feet directly from the Pacific floor, though only its final 13,823 feet appear above the sea. Virtually all mid-ocean islands are built of volcanic, basaltic material and thus differ geologically from offshore islands like Britain, Cuba and Newfoundland, which are actually appendages of the granitic continents beside which they stand. Most of the mountains of the sea are believed to be of volcanic origin, and thus, too, differ fundamentally from many of the mountains of dry land. Although volcanic activity often accompanied the building of the continental ranges, many of the great land systems rose slowly over the centuries through the imperceptible folding and faulting of the surface crust. The long geometrical patterns of the underseas ranges suggest they were formed by the opening of extended faults or fissures in the ocean floor. Through these crustal cracks hot molten rock welled up to build the long mid-ocean ranges and island festoons of the earth's seas.

In addition to great ridges and volcanic chains, the oceans conceal

FOLD OUT: DO NOT TEAR



in truer horizontal scale, showing how the continents extend above and below the ocean floor. In the foreground a geological section shows the granitic and sedimentary rock of the continent, the underlying basalt of the ocean bed, and the

volcanic fissures up which molten rock erupts to form submarine mountains and islands. Overlying the basic rock are layers of varicolored clay and marine ooze about 2,000 feet thick. The dotted line indicates the surface of the sea.

recently discovered a system of channels as vast as the Mississippi River and all its tributaries, which may arise from great canyons off Greenland. No one today can explain the origin of submarine canyons. Their proximity to rivers—as with the 150-mile canyon off the Hudson and the 145-mile canyon off the Congo—suggest that they might have been carved by river water at a time when a withdrawal of the sea exposed the continental slopes. Yet some of these gorges lie more than three miles below the surface, and no accepted theory of rising and falling sea levels can account for a recession to so great a depth. Some authorities have proposed that the canyons might have been incised by faults in the earth's crust, by earthquakes, by submarine mud flows or landslides, or by the erosive action of deep-lying, silt-laden "turbidity" currents. Yet there are objections to every hypothesis.

At the base of the continental slopes, drowned in the eternal cold and darkness of opaque miles of water, lies the deep ocean floor, nadir of man's world, comprising half of the total surface of the planetary sphere. In a sense the term floor is misleading, for only in certain places, like the great eastern Atlantic basin and a vast volcanic plain in the Indian Ocean southeast of Ceylon, does the deep sea bottom exhibit the flatness and homogeneity one associates with a floor. All the ocean beds are ribbed and corrugated, grooved by elongated trenches, separated by mountain ranges and subdivided by transverse

ridges and island chains into groups of smaller basins. So each ocean has many floors—as many as it has basins—each with its own contours, each carpeted with varied layers of sediment. Over the basic rock underlying all the ocean bottoms these sedimentary layers—product of a billion years of deposition of organic and inorganic debris, flaking slowly downward from the surface waters—average a half mile in depth. Some oceanographers have estimated that they accumulate from the surface at the rate of one inch per 2,500 years, others that in certain areas deep currents flowing along the bottom may from time to time deposit as much as 10 feet in a single day. Yet the sediments vary from basin to basin and sea to sea. In parts of the Pacific they lie less than 1,000 feet thick over the basalt basement, and in parts of the Atlantic they have piled up in great deposits nearly two miles in depth. On the continental shelves and canyon deltas the deposits consist largely of coarse particles—sand, silt and mud washed down from the land by rivers and rain. In ocean basins the sea floor is covered with finer fabric: the marine oozes and red clay. Pink, white, yellow, red, green, brown—the oozes are the organic remains of innumerable numbers of minute sea creatures whose calcareous or silicious shells and skeletons have drifted down from above, century after century, in numbers meaningless to man. Mingled with them are certain more esoteric deposits—fragments of lava and pumice ejected

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outward to the continental slope which plunges 16,000 feet to the deep ocean floor. Hatched in the walls of the slope are submarine canyons. At right loom ooze-mantled mountain peaks, a white-topped coral atoll and a volcanic island

This panorama, in which the vertical scale has been exaggerated ten times, shows the general features of the area rather than any one section of the floor. The small inset below at left is a schematic section of oceans and continents, drawn

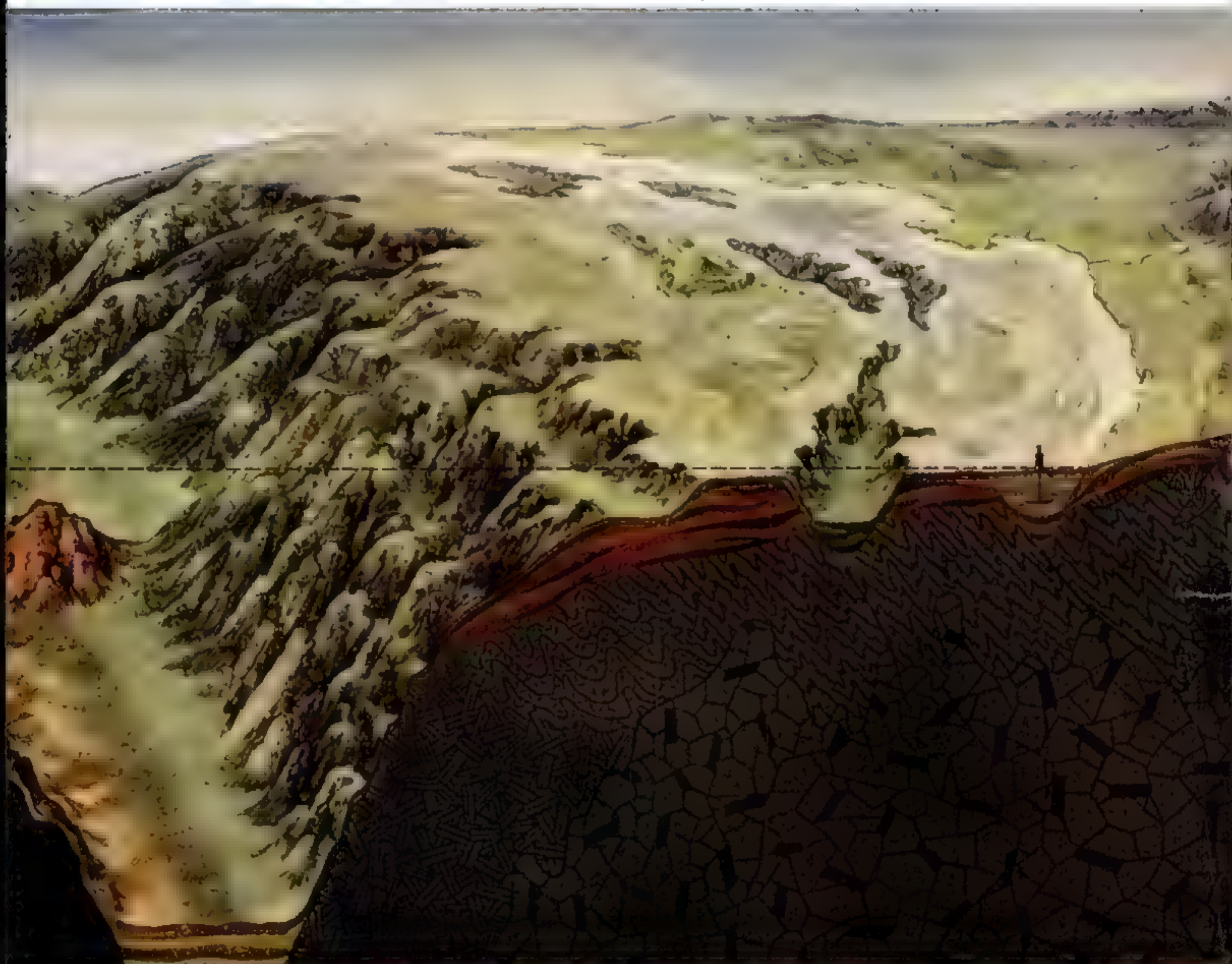
floor stand untouched and immutable in the calm depths, insulated against time and change by the cover of the sea. Only those loftiest mountaintops that rise above the surface and that men call islands feel the bite of wind, surf and rain.

Though the ocean basins differ from one another topographically as much as Africa from Asia, or North from South America, they share certain massive features in common. Each is divided into three great areas or domains: the continental shelves, the continental slopes and the deep sea floor.

The shelves are the thresholds of the continents, the transition zones between land and water, during past ages alternately flooded and exposed to air with the rise and fall of the sea. While a few sections of continental coastline and many islands plunge abruptly into the depths, most of the earth's land masses are skirted by broad belts of shoal waters, sloping gently downward to depths of 200 to 600 feet—running outward from the land for a distance of 10 to 200 miles. Off young mountainous coasts, such as the western shores of North and South America, the continental terraces are likely to be narrow. But off lowland coasts and the mouths of great rivers they slant seaward mile after gentle mile. The most extensive shelf on earth, with an area of more than a million miles, lies off the southern coast of Asia. The widest shelf on earth stretches northward 800 miles from

Russia into the Arctic Sea. Scarred by scattered ridges, drowned river valleys and glacial troughs, the broad, muddy, sandy floors of many shelves bear reminders of vanished epochs when the seas roiled lower and they belonged to the land. It is near the shelves and in the shoal waters around islands and coral reefs that the rich and multifarious life of the sea chiefly abounds. (A future essay in this series will deal in detail with the subject of marine life.)

At the outer brink of the continental shelves the submerged terraces of the land drop away in immense slopes often 100 miles long, plunging 12,000 to 18,000 feet into the abyss—the longest, unbroken escarpments on the face of the planet. Though some precipices are steeper, no mountain walls on land fall in so continuous a sweep from summit to base. In a few areas where the sea floor has warped downward into offshore deeps or trenches the continental slopes plummet as much as 30,000 feet in a single stupendous decline. The facades of these ocean ramparts are not smooth but deeply seamed and fissured with canyons and gorges, often deeper and grander than those of the land, cutting back into the continental shelves and fanning out below upon the ocean floor in complex radial branches or in lengthy channels which may spread out for a thousand miles. In the Atlantic between Bermuda and the Azores oceanographers have



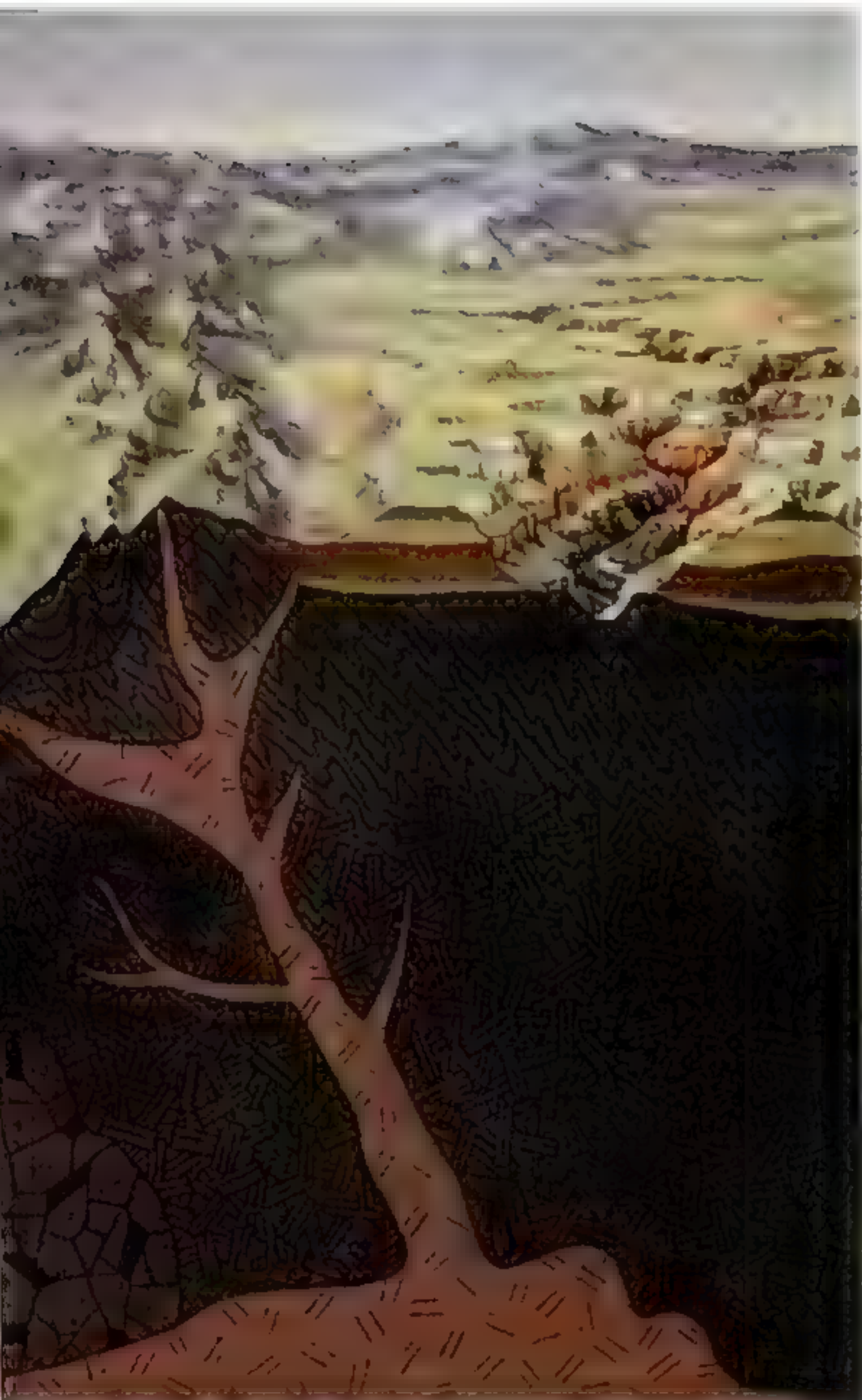
action of waves. At the center of the panorama is a typical oceanic trench, 10 miles wide, 25,000 feet deep, edged on the left by rolling hills of a 30-mile-wide submarine ridge. At the bottom of the trench lie untold layers of sediment,

perhaps six miles deep. To the right the continental slopes climb to a characteristic Pacific-type borderland, differing from the Atlantic-type shelf in that it is grooved and furrowed with subsidiary basins and ridges. At the extreme right

another form of submarine mountain the like of which man's eye has never viewed; the "Guyot" or flat-topped sea mount. No marine geologist had ever envisaged such a structure or suspected its existence until naval vessels equipped with fathometers found more than 150 of them in the Central Pacific during World War II. Since then more than 500 have been charted in the Pacific and a few in the Atlantic plains. Like the offshore canyons the Guyots present a major challenge to oceanographic theory. They appear to be volcanoes whose tops were planed smooth by wave action at some period when they stood above the sea. Yet today their truncated tops lie submerged beneath a half mile to a mile of water—"drowned ancient islands," as their discoverer called them. It may be that ocean levels have risen since they first arose from the depths. But it is more likely, authorities agree, that they sank, either from their own weight or because of some general catastrophic collapse of the contiguous ocean floor.

As there are valleys on land, so there are valleys under the sea. But many of the valleys of the ocean floor are deeper, more forbidding far, more alien to the experience of man than even the wildest Himalayan gorge. Every ocean has its deeps—long, narrow crevices or chasms in the sea floor where the bottom falls away as though some titanic force had sucked the crust inward toward the earth's core. No mountain peak thrusts as far above the sea's surface as these great oceanic

trenches fall beneath it. Curiously they appear near the continental slopes or along the edge of island arcs rather than isolated in mid-ocean. No one can say what stupendous stresses caused the sea floor to warp downward into these chasms. But their proximity to island chains and volcanoes suggests that there may be a reciprocal relationship between the upheaval of mountains and the down-thrusting of deeps, as though the earth's crust always maintained a changing balance of elevation and depression, height and depth. Some authorities believe that the oceanic deeps may actually represent future appendages of the continental shelves. For into these lightless troughs, century after century, turbidity currents carry sediment from land and the ocean floor, piling it layer on layer, possibly mile on mile. And so in time the imbalance of stresses might have caused the abyssal floor to buckle, thrusting the masses of sediment upward to form a new mountain range or island chain. Some of the earth's coastal mountains reveal sedimentary rocks containing fossils from the sea. And many of the continental edges disclose long parallel arcs of diversified rocks, some of them believed to be of deep ocean origin—like growth rings in the tree of geologic time. But in the present state of man's knowledge, no theory fully defines either the origin or destiny of the oceanic trench. It takes its place with other unsolved riddles of the sea, yet transcends them in mystery and awe. For the deeps are ultimate



a range of continental mountains and a land canyon drawn to the scale of the Grand Canyon of Arizona emphasize the difference in dimension between the contours of the land and the majestic hidden mountains and valleys of the sea.

fastnesses of Earth, eternally cold, eternally dark, crushed beneath pressures of seven tons to the square inch, a domain man will likely never invade so long as there are waters in the sea.

THE complexity and wonder of the sea resides, however, not only in the realms beyond man's view, but in its everlasting motion—the visible rise and fall of tides, the furrowing of its surface by wind and wave, and the subtler streaming of its great currents, flowing from pole to pole, east to west and west to east, from sandy shelf to dark abyss, keeping "eternal whisperings around/Desolate shores." In a wave lapping a familiar beach there may be droplets that once came from the Antarctic Sea, or droplets from the hot saline waters of the Persian Gulf, or from Baffin Bay, the Coral Sea or the Straits of Madagascar. And so in a real sense "deep calleth unto deep." The forces that unite the oceans and keep them in reciprocal motion, agitating the depths, impelling warm waters to the frozen ends of the earth and cold waters to the sunny tropics, are intricate and interlocking, but essentially they are three in number: the wind, the rotation of the earth, and the changing density of water (which varies with its temperature and salt content). Climate, gravity, and the friction of the water against the earth also play smaller parts in perpetuating the motion.

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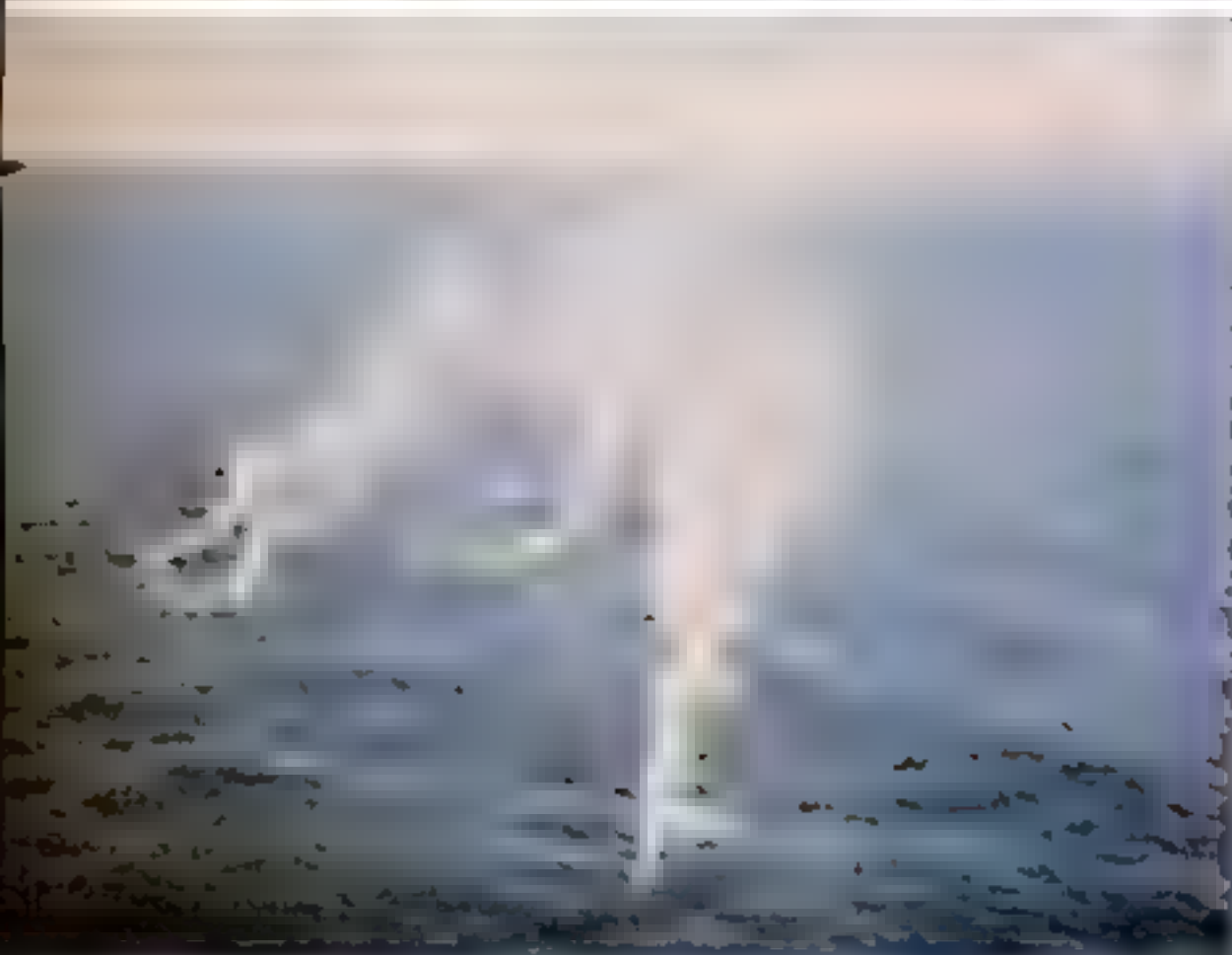
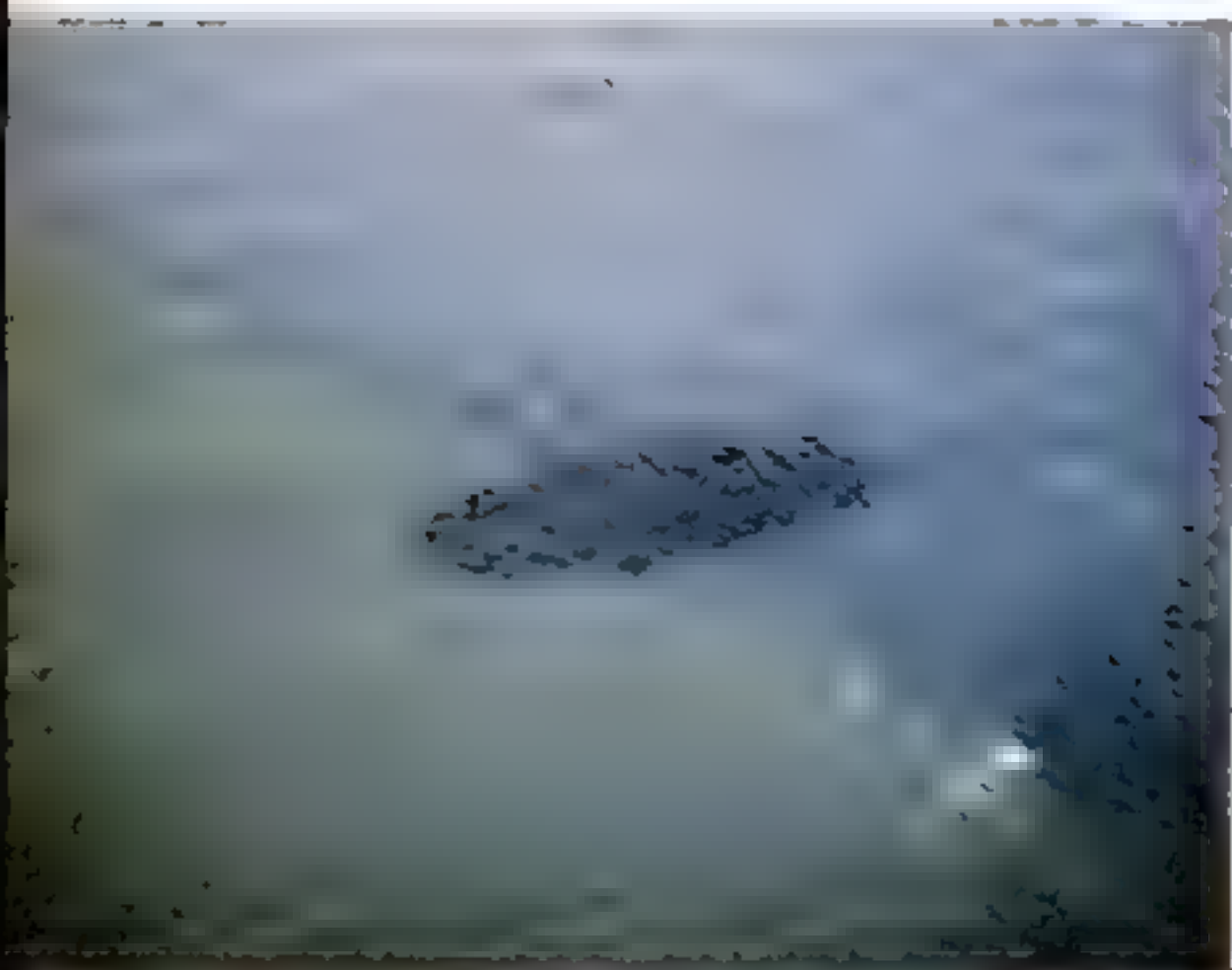
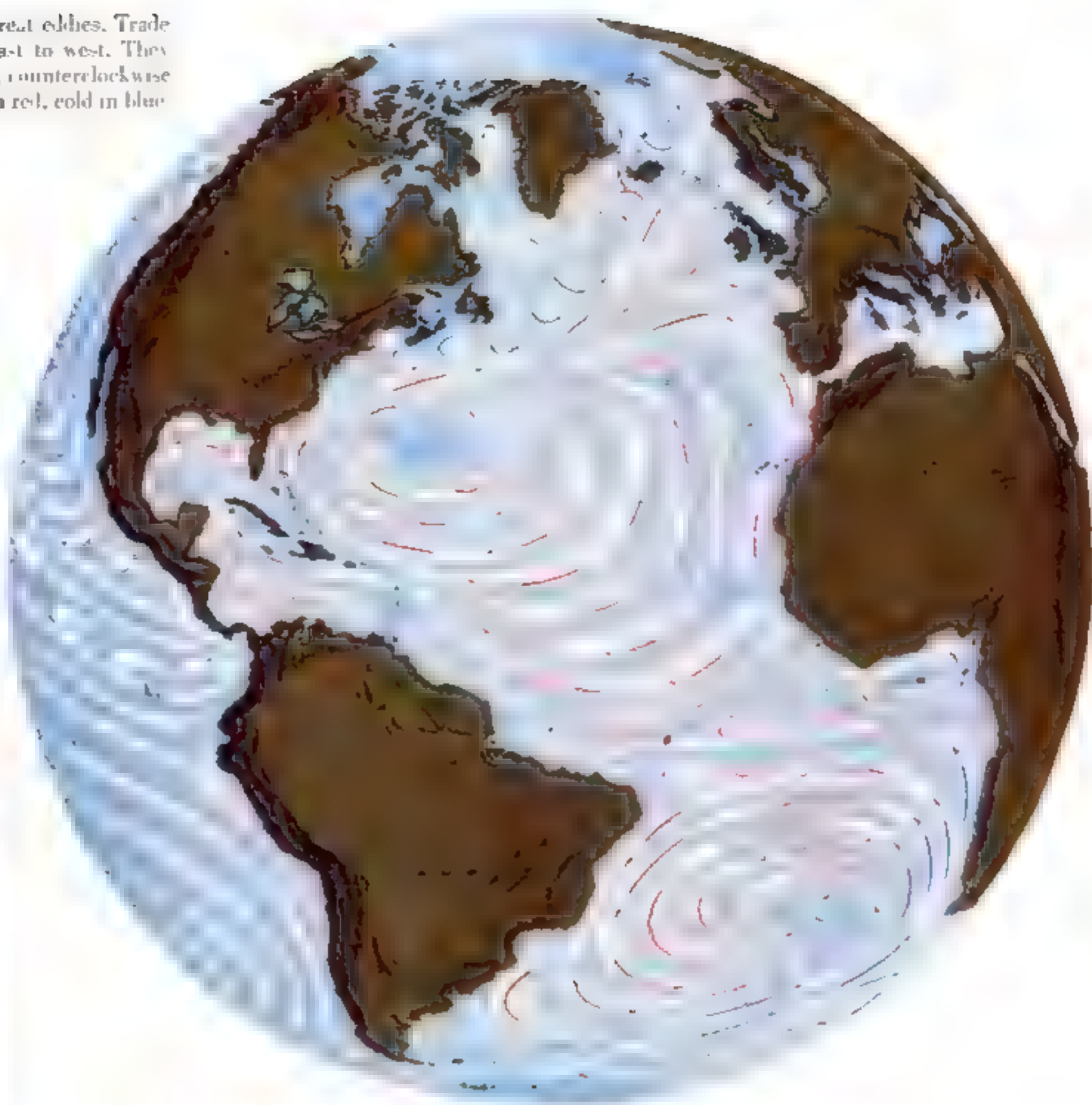


ATOP A GUYOT, or flat-topped sea mount 1,200 feet down, hatchet fish, eel larvae, lantern fish and sea fans dwell in an intermediate zone high above the ocean floor (background). Strange doughnut-shaped object on ground is a sea urchin. Brink of the Guyot is paved with dead coral remains.

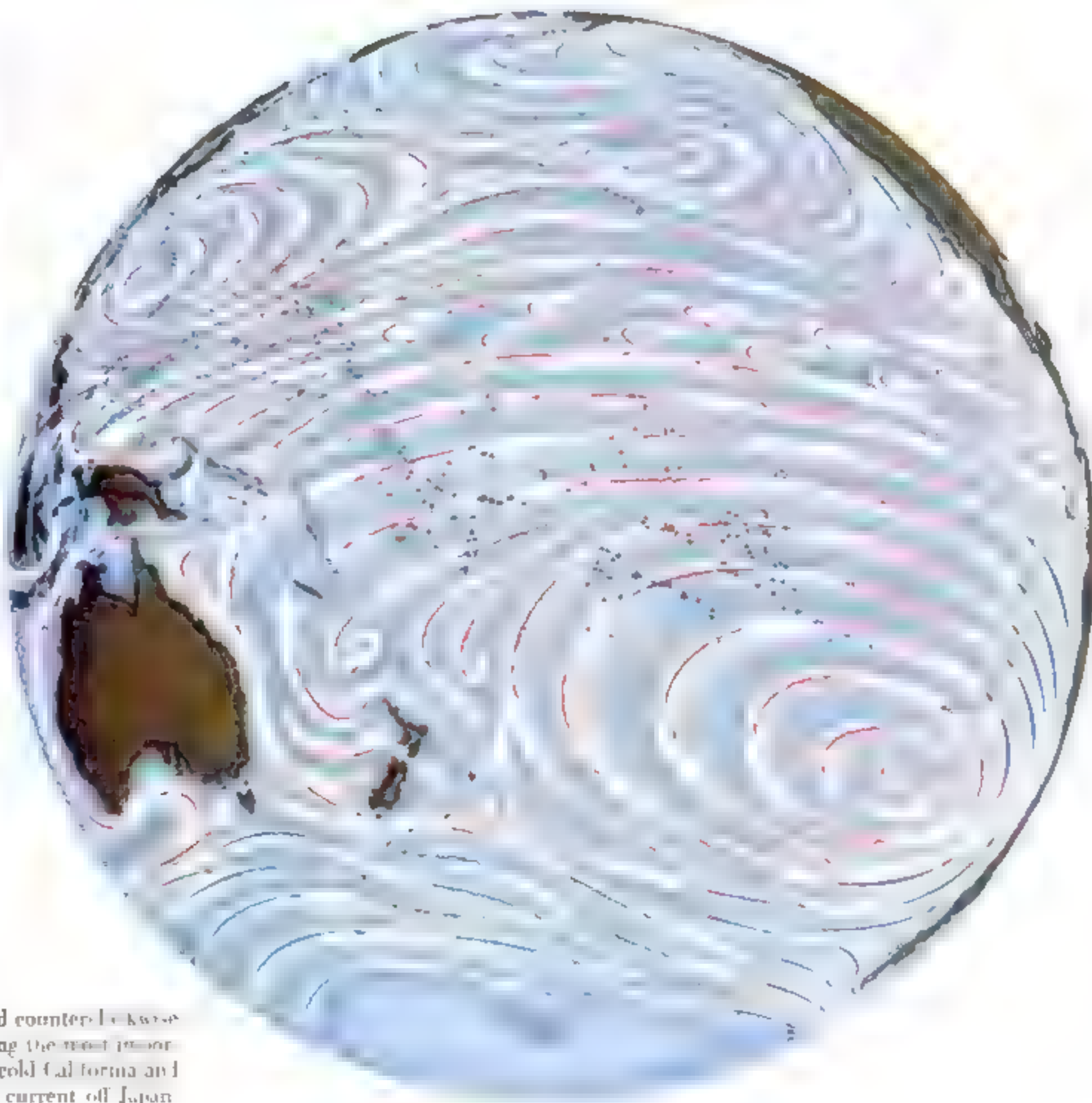
ON AN OFFSHORE BANK, 600 feet down, marine life flourishes prolifically in a twilight domain too dark for plant life but favorable to fish like dolphins (top), the goggles rat-fish and prickly skate (center) and sea cucumbers, hermit crabs and starfish (below). Plantlike objects are actually animals.



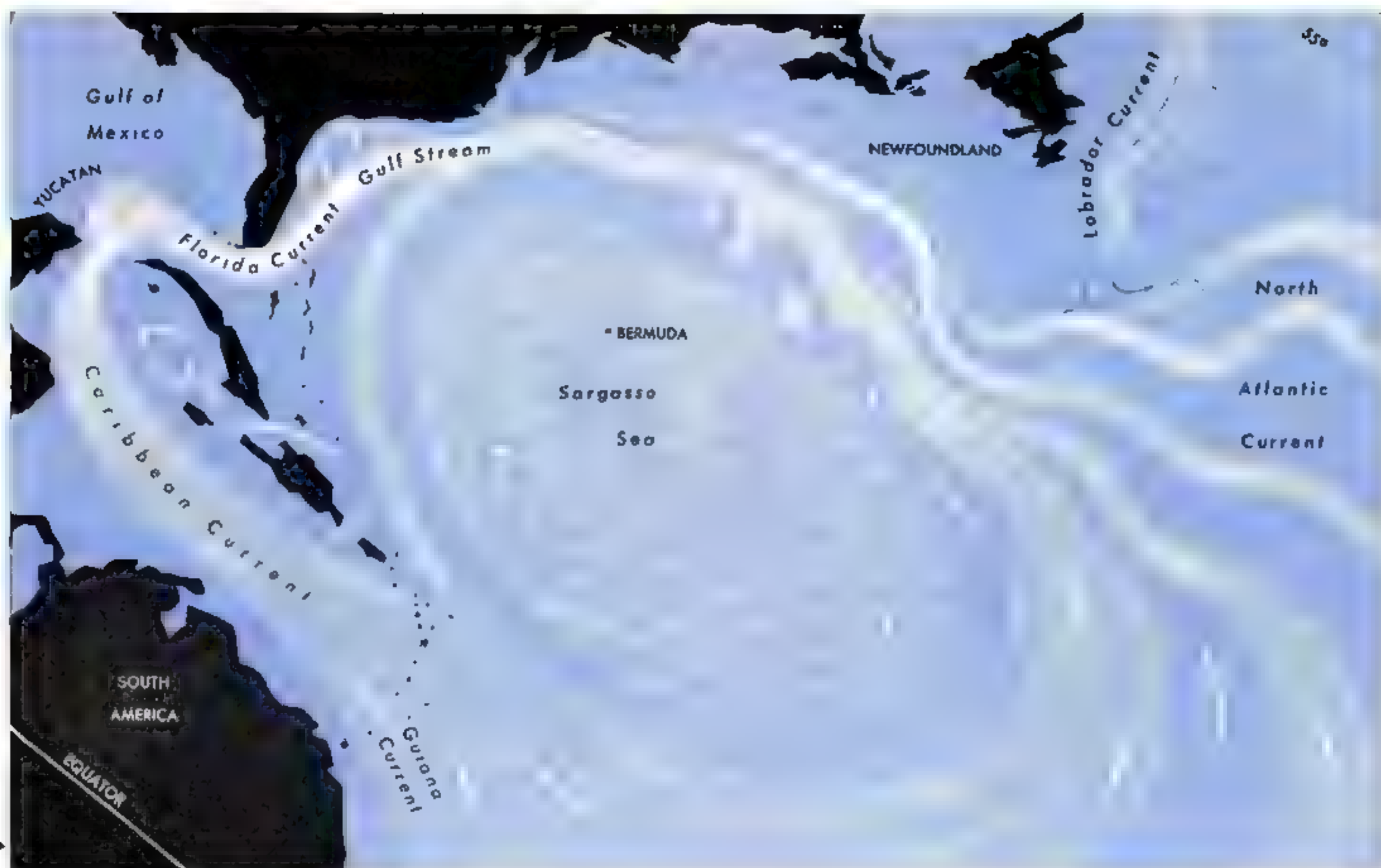
ATLANTIC CURRENTS create two great eddies. Trade winds impel equatorial currents from east to west. They curve clockwise in Northern Hemisphere, counterclockwise in Southern. Warm currents are shown in red, cold in blue



THE GULF STREAM'S EDGE, seen from a blimp, shows clearly where blue and green water meet. Its strong northward set is revealed when markers, dropped in a straight line across its edge, are swiftly swept into a right angle.



PACIFIC CURRENTS form clockwise and counterclockwise patterns like those of the Atlantic. Among the most important water masses of the Pacific are the cold California and Peru currents, and the warm Kuroshio current off Japan



THE GULF STREAM is actually a series of warm streams curving from Yucatan to Europe around the rim of the Sargasso Sea. Fed by the Guiana and Caribbean

currents, it speeds past Florida, widens, and then becomes four streams, one of which skirts the cold Labrador current to produce fog over the Grand Banks.

MIRACLE OF THE SEA CONTINUED

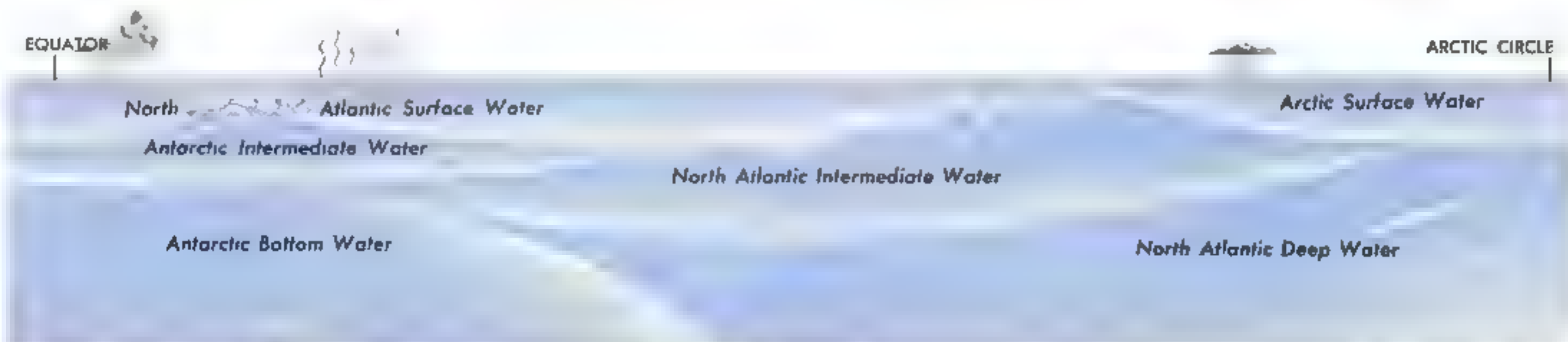
Although local winds may be created by local conditions, the steady planetary airstreams directed by the rotation of the earth are the Trade Winds, which blow out of the northeast just above the equator and out of the southeast just below it, and the Westerlies, which are closer to the poles and blow in directions opposite to the Trades. It is the Trades that give the initial impulse to the great westward-rolling equatorial currents from which most of the oceans' complex surface movements evolve. In every ocean the equatorial currents, riding from east to west with the Trades, are bent gradually to north and south by the force of the earth's rotation. As they near the continental barriers, they swing southward in the Southern Hemisphere, creating a great counterclockwise eddy; in the Northern Hemisphere they turn northward forming a clockwise swirl.

From each of these major systems a complex of secondary current systems then develops, each of them profoundly affecting the climate and economy of the adjacent lands. The most famous is the great North Atlantic Current known to mariners for more than four centuries as the Gulf Stream. Until recently it had been envisaged as a single integrated "river" within the sea, sweeping in a steady arc from Florida to the coast

of Norway. But now oceanographers believe that it consists of four narrow streams, separated by countercurrents, and meandering in wavy paths which continually change position and even occasionally break off into broad eddies 100 miles wide. Varying with place and season the current may transport as much as 72 million cubic meters of water per second (almost 1,200 times the volume of the Mississippi) at a maximum speed of six miles an hour.

But it is not the winds alone that keep the seas in motion. There are invisible slopes within the water, sloping surfaces created by variations in the water's density. These variations are the result of differences in temperature and salinity, which are caused for the most part by rain and evaporation of water by the sun. As the earth rotates, currents move along these density slopes. Ocean temperatures at the surface range from 28° F. in the polar regions to 90° F. in the steaming basin of the Persian Gulf. Cold water is denser than warm water and therefore settles to the bottom, where day and night, the year around, the temperature remains at about 31° F. But salt content also affects the density of water. Red Sea water, for example, with a salinity ratio of 41 parts of salt to 1,000 parts of water, has a far greater density than that of the Baltic where rivers and rain keep the salt content low. And so throughout the earth's seas, unseen currents of water are continually

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DENSITY CURRENTS, which transport masses of water around the earth at various levels below the surface, are shown in this vertical section of the North Atlantic.

Warm water or less salty water forms the upper layers of the sea; cold or highly saline water settles to the bottom. But there is constant upwelling and sinking.



LOW TIDE at Mont St. Michel, historic fortified abbey off Brittany, exposes 11 miles of sand and mud flats. As low as 10 feet, water retreats across a smooth and imperceptibly sloping shore in one of the greatest tidal fluctuations on earth.



HIGH TIDE envelops the abbey's walls six hours later. Contrary to legend, the water comes in not in a fearsome wall but in a shallow flood advancing at the speed of a fast walk. Yet many have been overtaken by the tide here and drowned.

MIRACLE OF THE SEA CONTINUED

welling upward and downward or gliding along secret ever-changing slopes of temperature and salt.

A large part of the bottom water of all the oceans originates in the Antarctic where the freezing of ice around the continental shelf causes cold and, therefore, dense water to settle to the deep sea floor, whence it creeps slowly northward at a glacial rate estimated by some oceanographers at less than one mile per day. In the Arctic too there is dense bottom water. But because of high east-west submarine ridges near the Arctic Circle its southerly flow is blocked, so only the upper layers move southward. At two points in the Atlantic, off Greenland and Labrador, this water mingles with warmer, saltier water from the south, and the resulting mixture—saltier than the former, colder than the latter—sinks in vast quantities (two million cubic meters per second) to form the deep water of the North Atlantic. Inching southward at great depths this meets the Antarctic bottom water north of the Equator. But the latter, being colder, forces its way beneath the Atlantic deep water and remains the nethermost layer of the sea. At certain regions of the ocean, particularly along coastlines where there are strong offshore winds, the surface waters are parted by wind and the deep waters well up to replace them.

There are many layers in the sea and many invisible currents that derive their energy from density differences alone. Most famous of these, perhaps, are the density currents that pass through the Straits of Gibraltar. In the Mediterranean basin rainfall is sparse and temperatures are high, so that month after month, under warm sun, water evaporates rapidly. It becomes ever saltier, ever more dense, and sinks to form a briny layer beneath the surface. This layer of salty water flows outward over the sill at the Straits of Gibraltar and thence downward into the deep sea until it reaches a depth of 3,000 feet, at which level it is no longer heavier than the waters around it. It then spreads horizontally across the Atlantic, finally losing its identity in the vicinity of Bermuda. As the Mediterranean deep water flows outward across the sill, the lighter, less saline water of the Atlantic flows inward on the surface to replace it. During the last war German submarines used this two-way current at the Straits to enter and leave the Mediterranean with engines silenced—riding in with the top Atlantic water, drifting out over the sill with the heavy water.

AND so, one can visualize the great current patterns of the sea as two rotary systems. On the surface, blown by winds, are rotating sheets of water on whose rims lie the narrow, swift currents like the Gulf Stream, moving at speeds up to six mph. Below the surface, influenced by rain and sunlight, are the deep density currents, groping their way poleward through the blind depths in superimposed layers, now rising, now settling along their invisible slopes. Some oceanographers estimate that a given particle of water in such a density current might take 10 years to slide from the surface layers at the Arctic to the abyssal depths near the Equator; others guess 2,000 years.

In addition to these progressive, continuous movements of the planetary waters, energized by winds and the earth's rotation, the oceans manifest more obvious periodic or reversible rhythms—the daily rising and falling of the tides, some of whose effects are shown in the pictures at left and opposite. First discussed in recorded history in the middle of the Fifth Century B.C. by that acute Greek observer, Herodotus, the diurnal tides remained a mystery—often attributed to the breathing of some giant sea monster—until Sir Isaac Newton related them to his theory of gravitation in 1687. Yet even today the complexity of tidal phenomena is such that no simple explanation suffices. The one familiar fact is that in many areas of the world, such as along the Atlantic Ocean, the tide rises higher and ebbs lower when the moon is either full or new: the spring tide. When the moon is in its first or third quarter the fluctuations are less marked: the neap tide. These variations derive from the fact that the earth's waters respond to the gravitational pull of *both* sun and moon, but the pulls are unequal. The moon, being closer to the earth, exerts a force more than twice as powerful as the sun's. During a new moon or a full moon, all three bodies—earth, moon and sun—are in line, so the gravitational influence of sun and moon abet each other to produce the spring tides. But during the moon's first and third quarters, sun, moon and earth stand at right angles to each other, neutralizing each other's influence and thus producing the lesser pulsation of the neaps.

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TIDAL MARSH near Brunswick, Ga. displays an intricate filigree of twisted channels into which the waters of the sea course each day at high tide and then withdraw. On low lying shores such as this the rhythmic rise and fall of the tide

often creates new land. Years ago this area was covered by the sea. Then an off shore bar was built by sand-laden surf. Behind it sediment deposited by waves and washed down by streams from shore slowly accumulated to form a marsh.



A BREAKING WAVE arches above the sands of South Beach, Martha's Vineyard. Engendered by some distant storm at sea, it has traveled unknown miles to its destiny on this shelving strand. The breaking process begins a few yards



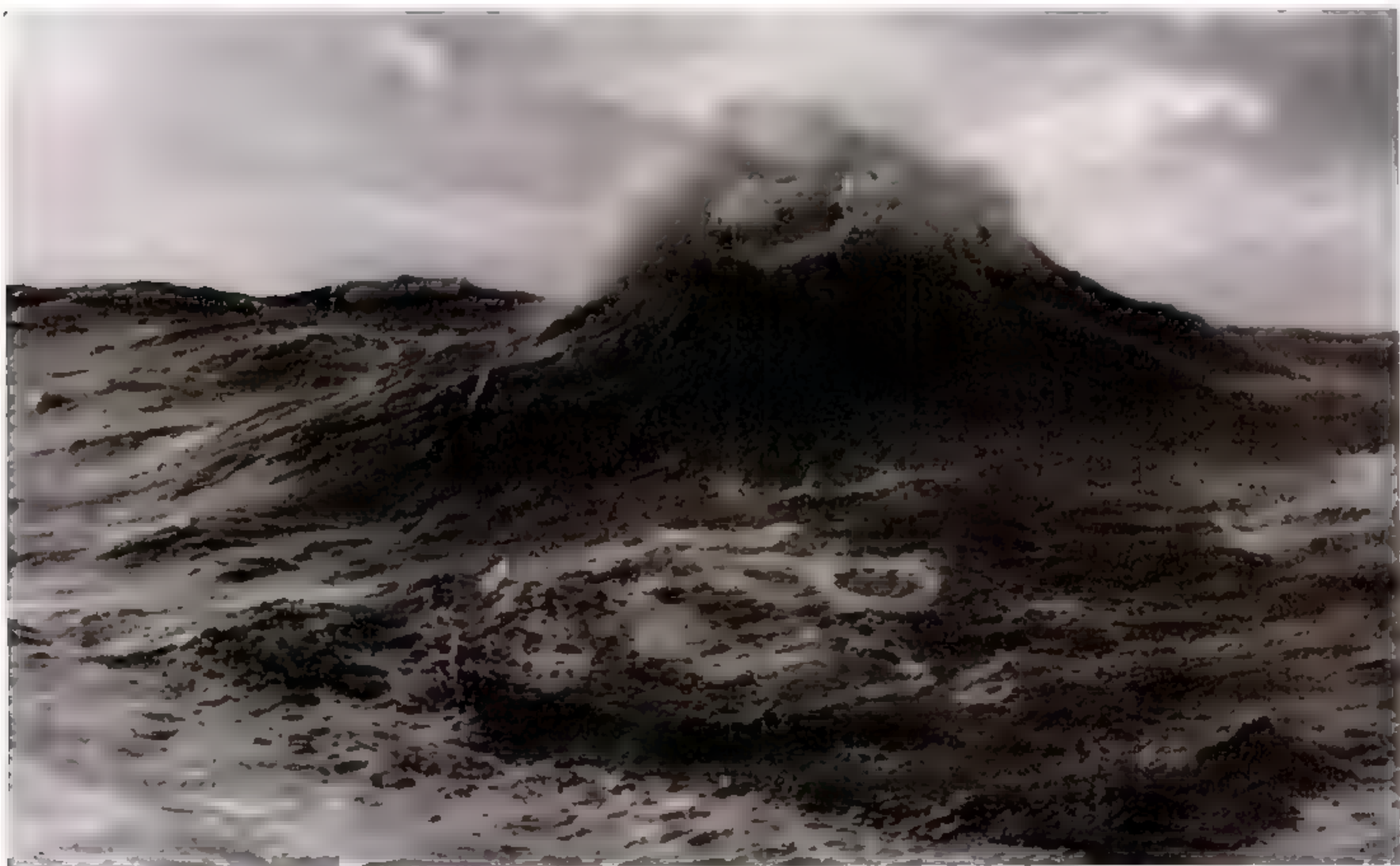
offshore when the wave "feels bottom" and, slowed by the friction of its contact with the sea floor, changes shape. What had been a long, flat swell mounts upward, first into a rounded ridge, then higher into a narrow steep

MIRACLE OF THE SEA CONTINUED

Yet this is by no means the complete answer. The speed of tidal movements is determined by the depth of the water. Each inlet, bay and cove on earth exhibits its own unique rhythms and scale of rise and fall. At some places like Nantucket and Tahiti the tide lifts only a foot. At others like the Bay of Fundy in Nova Scotia it surges upward more than 40 feet, or, as in certain parts of the Amazon, it may form a 10-foot wall of water, or "bore." In most parts of the Atlantic the tides wax and wane twice a day, in some regions of the Pacific and Indian Oceans only once every day. These aberrations remained among the unexplained anomalies of the sea so long as the ocean floor was envisaged as a broad flat plain. But we know now that each ocean has many basins, and that within each basin the water tends to oscillate—to slosh back and forth like the water in a dishpan or a bathtub when it is disturbed. The size, shape and depth of each basin governs the period of oscillation, and it is this factor that produces irregulari-

ties in the time and magnitude of the tidal rhythms. When the harmonic movement of the waters in any basin happens to coincide with the pulse of the sun and the moon, the tides swing to extremes; when the rhythms fall in opposition they neutralize each other and tides are weak. A locality situated at either end of a basin will experience higher tides than one at the central node, in the same way that the ends of a seesaw experience more motion than the middle. The Bay of Fundy lies at the end of a basin whose period of oscillation is in step with solar and lunar rhythms. Its local contours, moreover, are such that the waters surge through a wide mouth into ever-narrowing estuaries. Twice a day 3,680 billion cubic feet of water rush in and out of this funnel, producing the greatest tides on earth.

Tides and currents serve man in many ways; waves have always been his enemies. Of all movements of the waters none have wrought more destruction or evoked more terror than waves—whether tossing white frothy manes in the open sea (*below*) or crashing on a wind-swept shore (*above*). To most people the term "wave" denotes

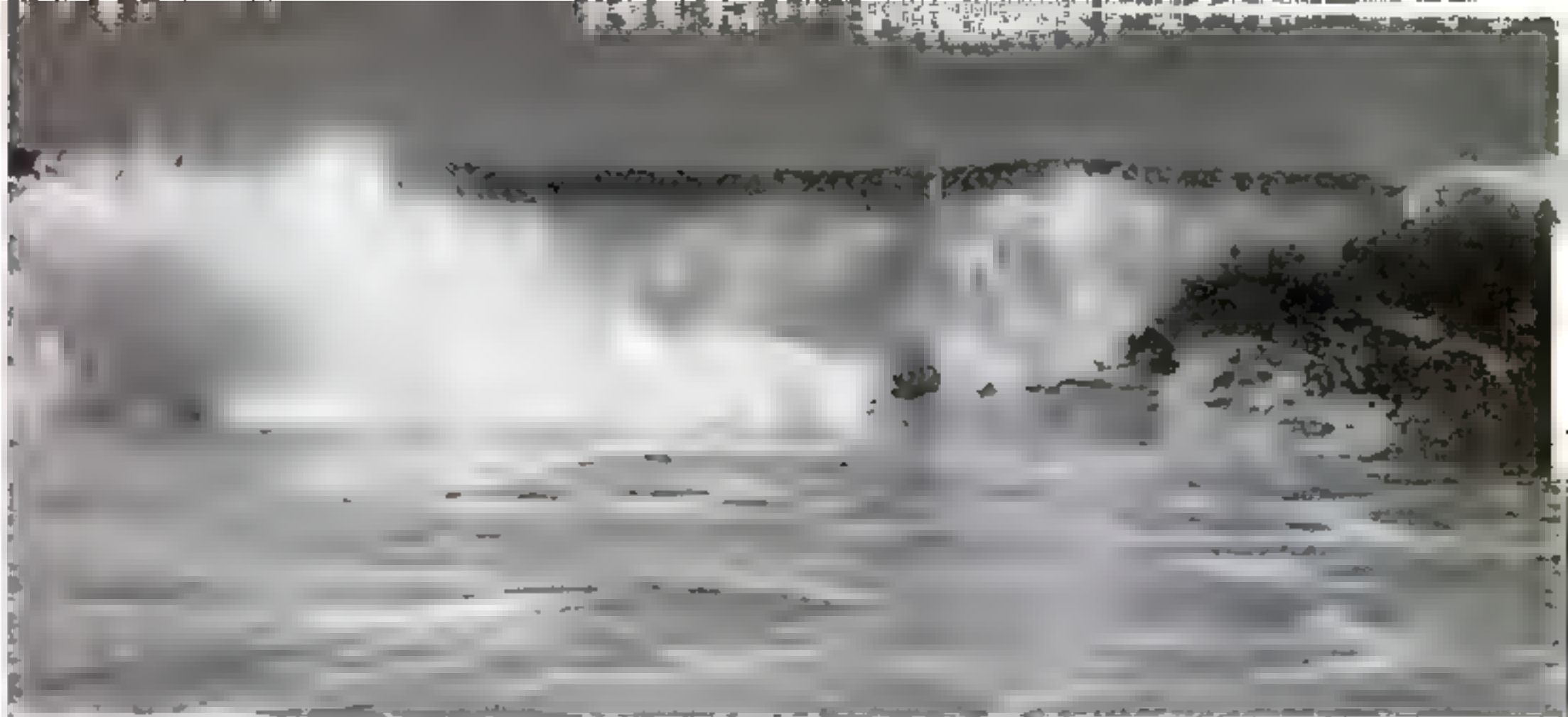


STORM WAVES are created by the steady blowing of strong winds over a wide expanse of sea. The height which a storm wave may attain depends both on the violence and the duration of the gale and the extent of open water over which the

storm rages. Most seas are only five to 12 feet high, even in a stiff blow, but a fierce two-day storm in mid-ocean may produce 30-foot waves, like the one shown here. Waves 50 feet high—and even higher—have been reported, though they are rare.



crest, laced with foam and sparkling with reflected sunlight (*left*). The crest hurries landward at a speed greater than that of the wave's forward slope. It hovers, curls forward (*center*) and then thunders with a final concentrated



explosion of power and fury onto the sand (*right*). Depending on wind conditions and the configuration of the beach, surf may take the form of lapping wavelets, spilling breakers or plunging rollers like those shown above.

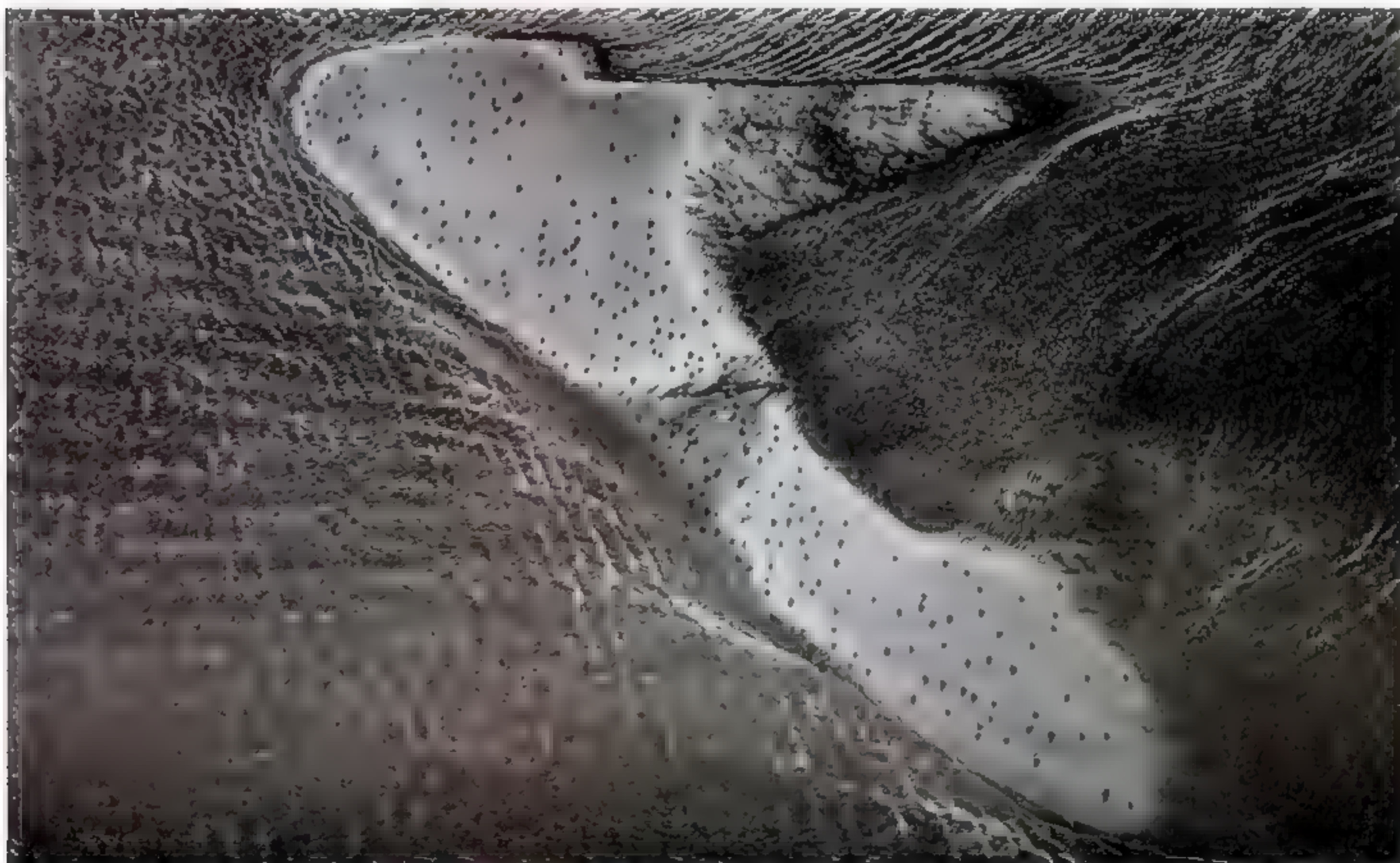
any vertical rise or swelling of the sea. Actually there are three types of waves, differing in form and circumstances. A wave, when it first forms in wind-blown water, is called a "sea." When it has advanced out of a storm area and is traveling across calm water under its own momentum, it is called a "swell." And finally, when it reaches land and breaks, it is called "surf."

Water responds to extremely gentle movements of air. A zephyr wafting at a speed of no more than half a mile an hour is sufficient to start an oscillation of the surface strata that swiftly rises into a train of ripples. When the breeze freshens to two miles an hour the ripples evolve into waves that will then build themselves up so long as the air stream continues to press on their rear slopes and pull from in front. The size they eventually attain depends on three quantities: the velocity of the wind, the duration of the blow and the "length of fetch," which is the extent of the water over which the wind can travel without obstruction. For example, a 37-mile gale blowing across a bay only 12 miles wide could not produce waves more than

7 feet high; the same wind sweeping across 62 miles of water would raise 14-foot waves; and if the length of fetch were 300 miles the waves would tower to 19 feet. In the Mediterranean, where the length of fetch is restricted, even the wildest gales cannot produce waves more than 16 feet high. But in the oceans a 60-mile gale, raging for two days over a 900-mile expanse of open water can develop waves 40 feet in height, which is about the observed maximum. Winds of greater velocities, such as accompany hurricanes and typhoons, make the ocean surface fearsomely turbulent but do not engender extremely high waves because they blow the tops off the waves and are continually changing direction; it is the steady wind that incites nature's highest seas. Occasionally seamen report monstrous, pyramidal giants of 80 to 100 feet, but these are isolated freaks caused by the chance collision and union of two or more wave trains.

Once a wave has been set in motion it will continue to run across the sea, even in a flat calm, traveling for thousands of miles, day after day; it has become a swell. As it progresses, its height (from trough

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SWELLS are the aftermath of strong winds far out at sea. Waves of this kind, which are self-perpetuating echoes of spent storms, are driven by their own momentum across vast areas of windless water. Low, widely spaced and fast moving,

they cross the sea in ordered pattern to break at last on the shores of distant continents. Here, long swells from the open Atlantic (*lower left*) are shown curling around the ends of a sand bar off Cape Hatteras, where scores of seagulls roost.



THE SEA AS A BUILDER constructed these limestone ridges on the Great Bahama Bank. Over countless years the precipitation of chemicals in the water and the drifting down of the shells and skeletons of minute lime-bearing marine

organisms created deposits which solidified into secondary rock. The ridges shown here at high tide are covered with sand and coral and creased with the marks formed by currents. The channels across the banks are 10 to 15 feet deep.



PEBBLE RIDGE in Devon, England has been built up by wave-tossed cobbles such as often are found along rocky coasts or at the foot of cliffs. During spring tides the surf often crashes upon the crest of the ridge, hurling stones 50 feet inland.

MIRACLE OF THE SEA CONTINUED

to crest) diminishes, but its length (from one crest to the next) increases. Its speed also increases, so that eventually it is cruising faster than the wind that originally set it in motion. The great waves that occasionally arise from submarine earthquakes or landslides (often miscalled "tidal waves") have been known to attain lengths of more than 100 miles and velocities of almost 500 miles per hour.

Contrary to popular belief, it is not the component water of a wave that thus sweeps over the sea, but only the wave form. An advancing swell may be envisaged rather as an undulation, like the wave pattern that shimmers over a field of grain before a gust of wind. The heads of grain bow in rhythmic sequence but remain attached to their separate stalks. Yet the analogy is not quite accurate, for in the case of water waves each individual particle of water does move forward slightly at about 1 or 2% of the velocity of the wave form.

Every droplet or particle of water in a wave swings in a circular orbit, as though riding on the rim of a wheel rolling in the direction of the wave's advance. The size of the orbit equals the height of the wave for surface particles; farther down the orbits diminish in size, which is to say that wave action decreases with increasing depth. Below 600 feet the sea sleeps in relative calm, however wild the tumult of waters above. When the wave reaches the edge of land, its size changes until its depth is half its length. Then the circular orbits of the water particles are flattened into ellipses, and the wave arches up and breaks as surf.

The energy contained in a breaking wave is tremendous. Measurements made with wave dynamometers have shown that waves sometimes strike with a force equal to the pressure of 6,000 pounds per square foot. The energy content of a four-foot swell, moving along a 100-mile front, would supply power to a city the size of Seattle for 24 hours. Storm waves battering coastal areas have been known to catapult stones through lighthouse windows 100 feet or more above the sea, to shatter piers and sea walls built of steel and concrete, and hollow great caverns in the walls of rock cliffs.

IN many phenomena of nature an uneasy balance of creation and destruction is maintained; and this is especially true of the sea. The hammering of waves may either erode a shore (*bottom, right*) or rebuild it (*top, right*). The shapes of the margins of continents and islands are mere temporary configurations appropriate only to contemporary maps; for every headland, beach and cliff on earth is either in the process of being built or eaten away. In general it is the big storm waves—throwing tons of water upon the shoreline, hurling boulders and cobbles against rock cliffs, and sweeping finer particles out to sea—that destroy. Moderate waves are builders; for the gentle swash and backwash of their waters carry numberless grains of sand, now landward, now seaward, now obliquely up the beach slope, and then, having spent their force, recede, leaving the grains where they came to rest.

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LONG BAR BEACH, Flagler Beach, Fla., is characteristic of flat coastlines. Such beaches originate from formation of an offshore bar, often thrown up by storm waves. Thereafter more sand is deposited by light surf and coastwise currents.



CRESCENT BEACH in Dorset, England is a feature of rugged and indented coasts where the land slopes steeply into the water. The waves attack weaker zones in the rock cliffs, cutting series of arcs within which sand then accumulates.



ARCHES AND CAVES at Flamborough Head in Yorkshire, England have been shaped by centuries of hammering by the implacable sea. These headlands are constructed of layers of chalk—a form of limestone laid down in ages past.

Year after year, century after century, the battering of waves incised the soft strata into grooves and fissures; the fissures became caves; and in the end the rear walls of the caves succumbed, leaving arches like the one in foreground.

MIRACLE OF THE SEA CONTINUED

Geologists now know a few sequences in the unending story of marine architecture. One is the sequence that takes place along "shorelines of emergence," where an uplift of the land or a lowering of sea level has exposed a part of the continental shelf. Here the shore is smooth and gently sloping, like the shelf itself, and the action of the sea tends to create new capes and swales and to form sandbars—barriers behind which tidal marshes develop. Many new miles of land may be built this way. The famous long beaches of the southeastern United States are typical constructions of the sea upon an emerged shoreline. But along "shorelines of submergence," like the jagged coasts of Maine and Scotland where the rim of the continent has sunk or the sea has risen to inundate inland valleys, different processes occur. Here the sea's action is a beveling operation, a slow planing down of peninsulas, headlands, rough crags and islands. Sometimes, across the

mouths of bays or at bayheads, the waves construct beaches out of the waste products of the abraded cliffs. But in the end, when the sea's work is done, the shoreline presents a straight wall of marine cliff like the coasts of Dover or Calais.

In this long process the innumerable chisels of the moving sea may carve the bedrock into a variety of strange, grotesque or beautiful forms—sea caves, sea arches, hanging valleys, spouting horns and the lonely columnar monoliths called stacks. The sculpturing work of the waves is often amazingly swift, for each rock fragment or boulder that gives way is arrogated by the sea and turned as a battering ram against the land. In many parts of the world soft rock coastlines are eroding at rates as high as 15 to 30 feet a year. But for every cliff that crumbles under the sledges of the sea, somewhere in the world a new curved beach is moulded by the drifting sand brought by quiet waves, a new sandy delta is formed by the sediment of branching streams, a new coral reef grows in the clear waters of a tropic lagoon, or a

CONTINUED ON PAGE 79



SHELVES AND STEPS disclose the stronger layers in these rock cliffs near Point of Buckquoy in the Orkney Islands north of Scotland. In some exposed parts of the British Isles the coast is being eaten away at the rate of 15 feet a year.



GRANITE COLUMNS rise from Land's End, the most westerly point of England. Here waves and weather have gouged vertical fissures in the bedrock, forming these columns, which ultimately are undermined and tumble into the sea.





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AN ENORMOUS WAVE climbs halfway up the 97-foot tower of Minot's Lighthouse in Massachusetts Bay. In the British Isles there have been instances of surf breaking the topmost windows of lighthouses 150 to 200 feet high.

MIRACLE OF THE SEA CONTINUED

new island appears as some hidden submarine volcano breaks the surface. And so the boundary between sea and land is an ephemeral one. No coast on earth is the same for two successive days. Every wave that strikes the shore loosens here a pebble, replaces there a grain of sand.

YET these changes, discernible in man's brief temporal scale, are insignificant beside the vaster changes that have occurred in the past and will occur again repeatedly until the end of time. For beyond local shifts in shoreline many worldwide transgressions and regressions of the ocean waters have occurred in rhythmic sequence throughout geologic history. Again and again the continents have been submerged beneath shallow seas. Some 250 million years ago during the geological epoch known as the Carboniferous Period, much of the central United States was one vast marsh; and 350 million years ago, in the Ordovician Period, the greatest inundation of all time reduced North America to a group of islands. Between such epochs there have been times when the land masses rode high above the seas, when most of the East Indies were part of the Asiatic mainland, and Alaska and Siberia were joined by a bridge across the Bering Strait. Many of the great marginal and inland water bodies of earth today—the North Sea, the Baltic, Hudson Bay and parts of the China Sea—are mere temporary invaders, usurping for a relatively brief moment the low areas of the continental shelves.

What forces produced these majestic floods, these immense, slowly recurring rhythms of the sea? Historical geologists believe that the answer involves two variables: 1) changes in the amount of water in the sea; 2) changes in the shape and depth of ocean basins. It is known for example that water is still emerging from

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MIRACLE OF THE SEA CONTINUED

the earth's interior through volcanic action; every time a submarine volcano erupts, a certain amount of new or "juvenile" water is discharged into the sea. But the quantity is inadequate to explain the huge fluctuations that have left their record in the past. Glaciers, however, have played a significant role in the changing levels of the ocean waters. For each drop of rain that falls on land and freezes is a drop of water lost to the sea. During the last million years recurring ice ages, when the glaciers thickened and advanced across the land, were reflected in falling sea levels. But between each ice age there were warmer periods when the glaciers melted and the seas rose again about the land. These alternating ages of refrigeration and warmth left their traces both in the scars of wave erosion on cliffs high above present sea levels and in the glacial grooves and drowned river valleys of the now-submerged

A NOTE OF ACKNOWLEDGMENT

LIFE is indebted to the following scientists for special assistance in the preparation of the first two instalments of "The World We Live In" series—this essay, "The Miracle of the Sea," and the previous essay, "The Earth Is Born":

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continental margins. Today, as the icecaps of Greenland and Antarctica ("fossil" remains of the last great glacial age) slowly melt, ocean levels are again rising, at a rate of about eight inches per century. If all existing glaciers dissolve and the earth again becomes ice free, sea level would stand 65 to 165 feet higher than it does at present, and about one quarter of existing land areas would be submerged.

YET even this 165-foot melt-water rise cannot account for the stupendous floods of the Ordovician and Cretaceous periods when the seas rose (or land subsided) perhaps 600 feet and drowned about half the lands of earth. Still less can it explain the mile or more of water overlying the submarine flat-topped mounts that must once have known the air and felt wave action. The recurring exchange of waters between glaciers and the sea cannot provide the whole answer. Hence most authorities insist that the essential contours of the deep ocean floor must, from time to time, have been deformed by forces unknown. Volcanic cataclysms, rearing new mountain chains like the Hawaiian Islands, would have displaced thousands of cubic miles of water. Or perhaps the primeval fires that lie pent in the deep core of the planet created alternating convection currents or other subcrustal pressures that caused the ocean floors to pulsate in age-long rhythmic intervals, now pumping the water onto the continents, now drawing it back into the deeps.

One may ask, therefore, if a time may come when all the land areas of earth will be drowned in "the rising world of waters dark

CONTINUED ON PAGE 11

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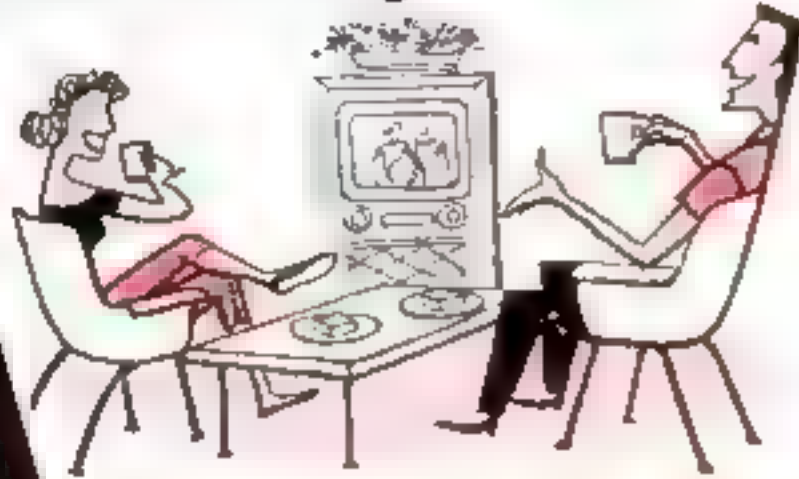
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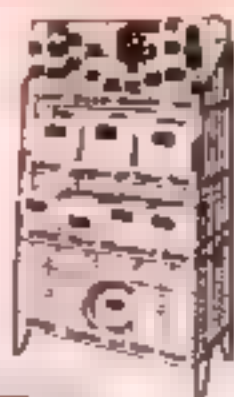


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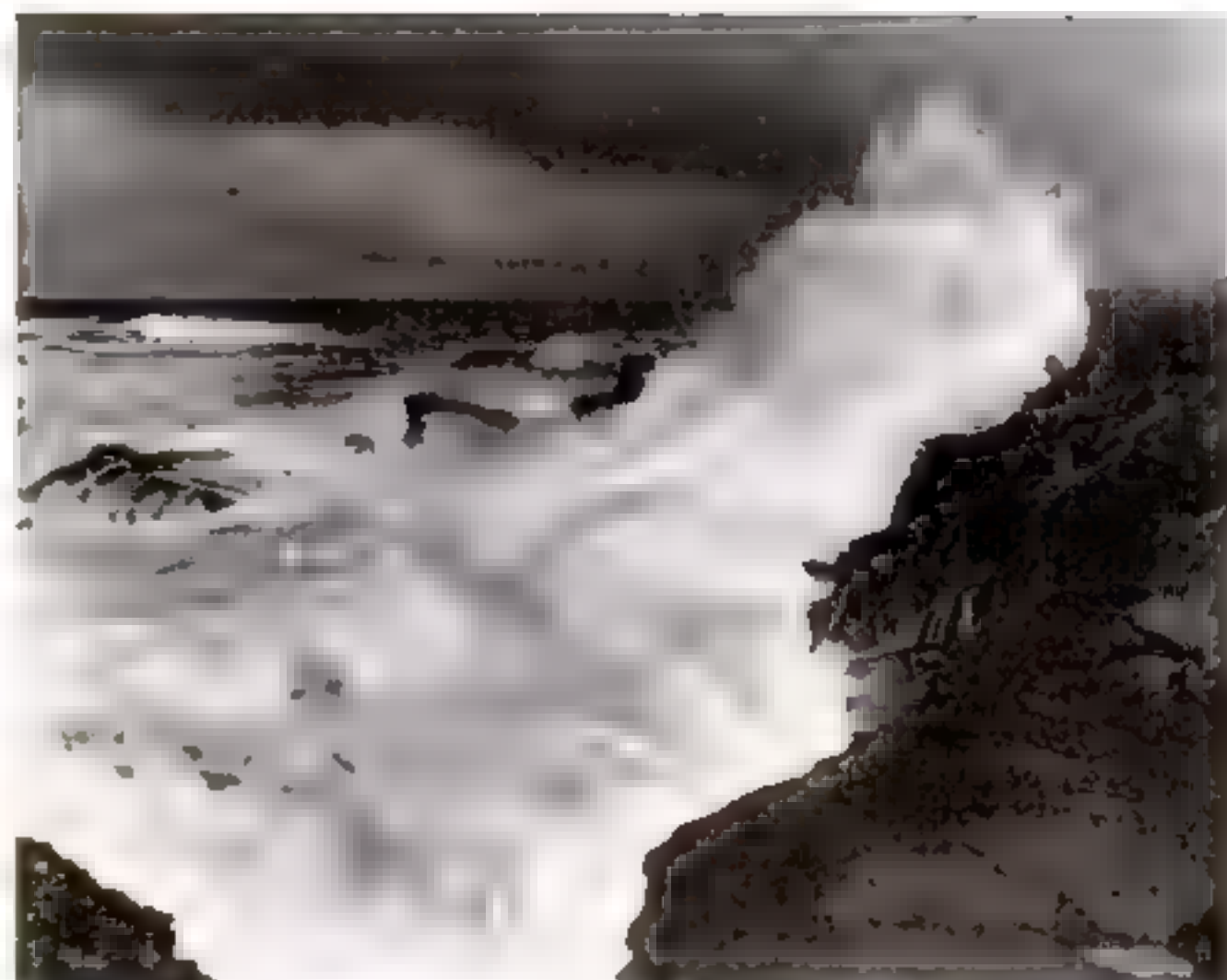
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PACIFIC SURF batters a cliff along the Oregon coast. The striking force of waves like this has been found to attain thousands of pounds per square foot.

MIRACLE OF THE SEA CONTINUED

and deep." It is in contemplating this question that the intricate balance of natural forces fills the mind with deepest awe. For the antagonistic processes of mountain-building and erosion, crustal upheaval and crustal collapse, that have alternated throughout geologic history, are in a sense self-regulating. The higher the eminences of the land, the faster erosion levels them and sweeps their detritus to the sea. And the lower the land, the slower the work of erosion and delivery of sediment to the ocean floor. It is clear too that the earth's thin sensitive crust continually shifts its load, so that whenever the continental masses grow thin and light a new uplift occurs. Each leveling of the continents, each transgression of the waters is followed inevitably by an upward warping of the land and a recession of the sea.

So long as these forces are held in balance—so long as new mountains arise and volcanoes spew forth new masses of molten rock and the continental shelves respond to changing pressures—the land will remain above the waters and man will have a place to live. This is perhaps the ultimate miracle of the sea, as the author of Ecclesiastes implied when he said: "All the rivers run into the sea, yet the sea is not full."

NEXT: THE CHANGING FACE OF THE LAND

The subject of the third chapter of "The World We Live In" will be the face of the land and the forces which endlessly shape and reshape its features. The entire article—20 pages—will be presented in color. Pictures by Andreas Feininger and other distinguished color photographers describe in magnificent detail the classic land forms which combine to produce the infinitely varied landscapes of the earth: mountains built by volcanic action and by the wrinkling, warping and cracking of the planet's crust; tortured terrain carved by water; sand dunes sculptured by the wind; valleys gouged by moving ice. Paintings born of a unique collaboration between geologist and artist give a spectacular visual summary of the internal forces which erect great structures on the land and the external forces which wear them away, forever changing the face of the earth. The text will again be written by Lincoln Barnett.

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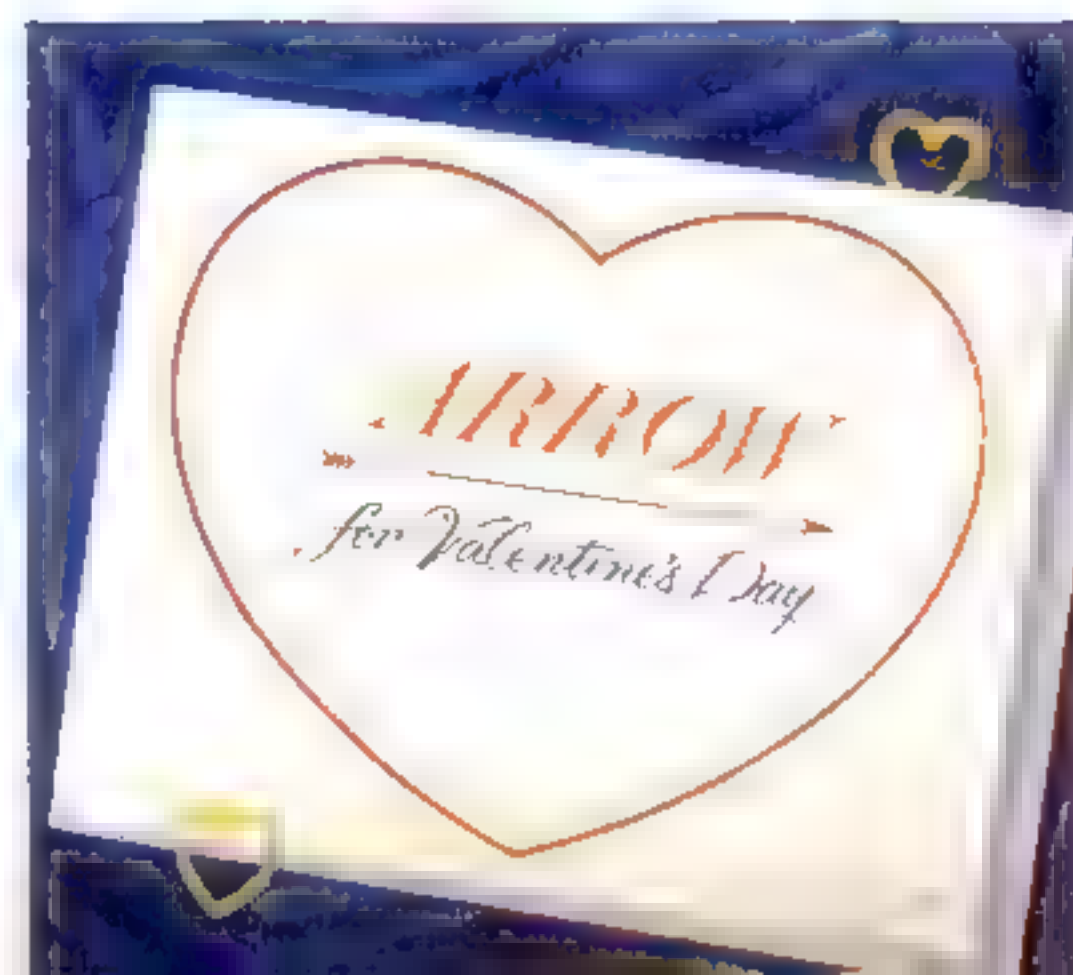
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Satan Came to Salem

ARTHUR MILLER PLAY EXPOSES HORROR AND HYSTERIA OF WITCH HUNT

In his first play since *Death of a Salesman*, Arthur Miller has written about the famous Salem witch hunt of 1692 when 20 men and women were cruelly executed for dealing with Satan. *The Crucible*, pointing out a parallel between Salem and some modern political witch hunts, shows how malice and hysteria combine to do

in an upright farmer, John Proctor, who tries to save his wife from a charge of witchcraft. With all of its characters based on actual personages, *The Crucible* displays more historical grasp than human insight, is more of a plea than a play. But, beautifully acted and staged, it adds impressively to the Broadway season.

ON TRIAL for witchcraft, a innocent wife (center, background) is grilled by judge while her loyal husband (Arthur Kennedy) and a slut who accused her are made to stand silently apart.

FIENDISH FIT in court overcomes defense witness (center) while Abigail Williams, the conniving accuser (Madeleine Sherwood), eggs her on and the aged judge (Walter Hampden) looks on.



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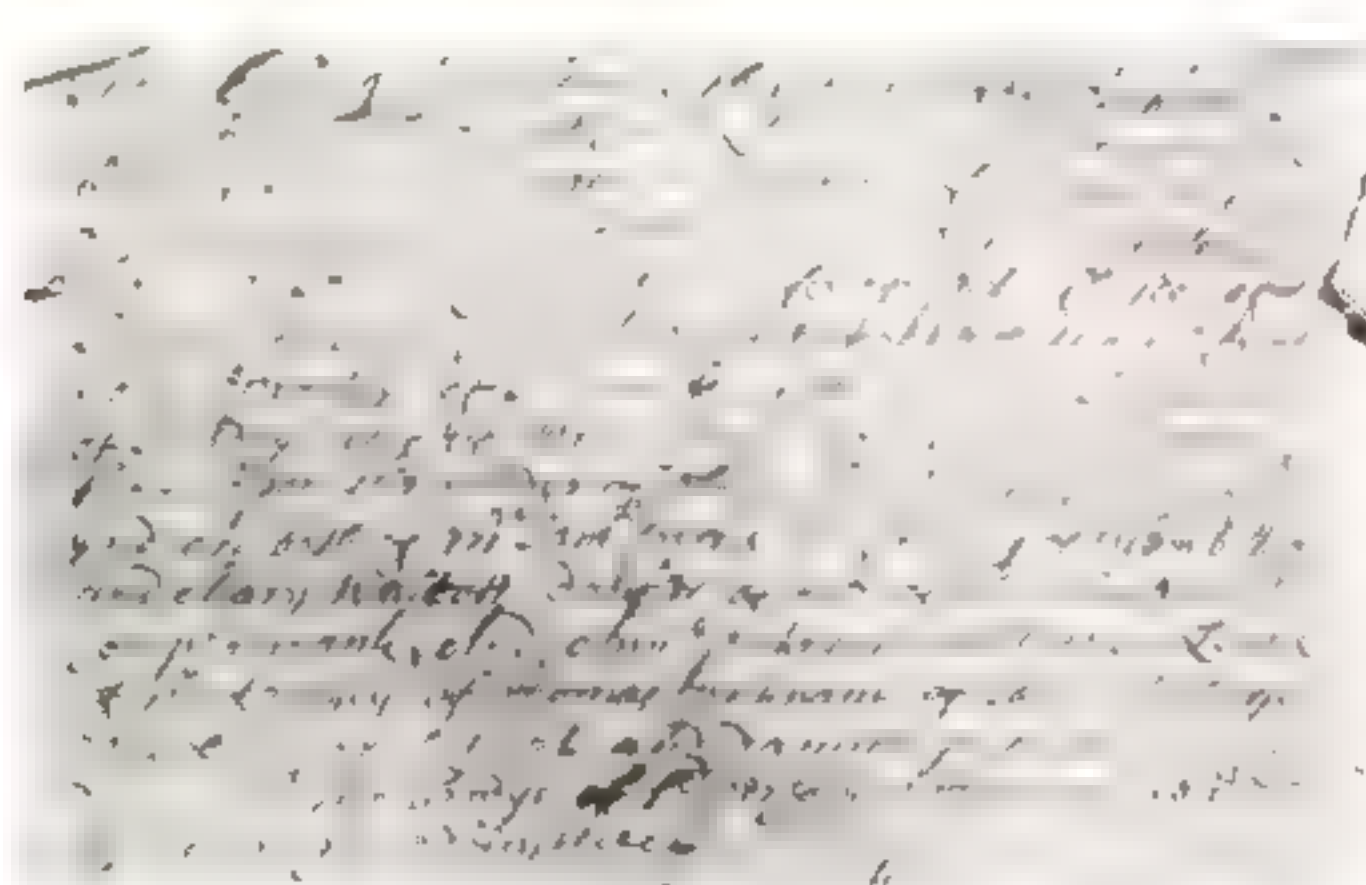
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SATAN IN SALEM CONTINUED



QUESTIONED by cleric who suspects them of witchcraft, Proctor and wife (Beatrice Straight) are implicated when he cannot recall Ten Commandments.



REAL ARREST WARRANT from Salem trials names Proctor and wife: "There Being Complaint this day made Before us by Capt. Jonat. Walcott, and Lt. Nathaniel Ingersoll, both of Salem Village, in Behalfe of their Majesties for themselves and also for severale of their Neighboures Against Sara, Clove the wife of Peter Clove of Salem Village; and Elizabeth Procter the wife of John Procter of Salem Farmes for high suspicion of Sundry acts of Witchcraft donne or Committed by them upon the bodys of Abigail Williams, and John Indian both of Mr. Saml. Parris his famly of Salem Village and Mary Walcott daughter of one of the abovesaid Complainants And Ann Putnam and Marcy Lewis of the famly of Thomas Putnam of Salem Village Whereby great hurt and dammage hath benne donne to the Bodys of persons above named. . . ."

CONTINUED ON PAGE 20



For a Sweetheart of a Figure

MORE WOMEN WEAR FORMFIT THAN ANY OTHER MAKE

Now with **PEPSODENT!**

Clean Mouth Taste^{for} Hours

Thanks to **ORAL DETERGENT*** Discovery!

*Leading Dental Journal
Reports **ORAL DETERGENT**
Cleans Teeth Cleanest!



In a large Mid-West University dentists recently compared students' teeth cleaned with Pepsodent versus all other leading tooth pastes. They reported: "Pepsodent cleans teeth cleanest of all!"

The reason, Pepsodent now cleans with a gentle **ORAL DETERGENT** discovery—not soap or chalk like other tooth pastes. Pepsodent thanks to **ORAL DETERGENT**, cleans where brush can't reach... keeps your mouth pleasant... breath freshest... gives you a Clean Mouth Taste that lasts!

But Don't Take Our Word
Make **YOUR OWN** Test...



1. Tomorrow brush your teeth with Pepsodent now with Oral Detergent. Note how the clean mouth taste lasts for hours.



2. Next day use your present tooth paste. Hours later compare the taste. Pepsodent's Oral Detergent makes the difference.

The lasting Clean Mouth Taste is proof that Pepsodent cleans teeth cleanest. That's because Pepsodent's exclusive Oral Detergent, a double-action ingredient combines Irium and I.M.P. to remove film and brighten teeth.

White or Chlorophyll—
only Pepsodent
with **ORAL DETERGENT**
Cleans Teeth Cleanest!





**HOW COME NOBODY
COMES TO MY PARTIES?**



**NEXT TIME SERVE KING
—IT'S THE BLEND THAT
TASTES THE BEST!**



**FOR SMOOTHER, Milder,
LIGHTER DRINKS STEP UP TO
THE KING OF BLENDS!**

BLENDING WHISKY. THE STRAIGHT WHISKIES IN THIS PRODUCT ARE 4 YEARS OR MORE OLD. 37½% STRAIGHT WHISKIES, 62½% GRAIN NEUTRAL SPIRITS. 86 PROOF. BROWN FORMAN DISTILLERS CORP. AT LOUISVILLE IN KENTUCKY.



IN HIS LAST AGONY John Proctor signs a false confession of guilt. But when he thinks of other innocent victims of the false accusation who are going courageously

to the gallows, he tears up the confession, decides bitterly but bravely to die. In the play, as in history he is hanged, but his wife, pregnant, is not and eventually goes free.



Now's the time for

Cook leaving? Don't fret. In less time than it takes to ring up an employment agency, you can make your family a bowl of delicious, appetizing Jell-O gelatin dessert.





New! Big-Car Value At Medium-Car Cost!

*America's Oldest Maker of Fine Cars Introduces
An Entirely New Line—The Packard CLIPPERS!*

EVERY INCH a Packard in fine engineering and craftsmanship. The new Packard CLIPPER is designed for those who want outstanding quality, yet wish to spend only a few hundred dollars more than for a car in the low-price field.

HERE YOU GET advanced contour styling—a Packard first that's setting the new trend in motorcar smartness. You enjoy the

flashing performance of the brilliant new Packard Thunderbolt-8 Engine. What's more, you get more room, better visibility, cushion-mounted safety bodies and direct-acting shock absorbers—all of which combine to give the beautiful new Packard CLIPPER the matchless smoothness, luxurious comfort and quiet of the famous Packard ride!

COME, SEE AND DRIVE the new Packard CLIPPER—now on display in a wide range of models. A true product of Packard engineering, it is today's BIG NEWS in the medium-price field!

For America's new choice in fine cars...see the new PACKARD—today's most advanced motorcar



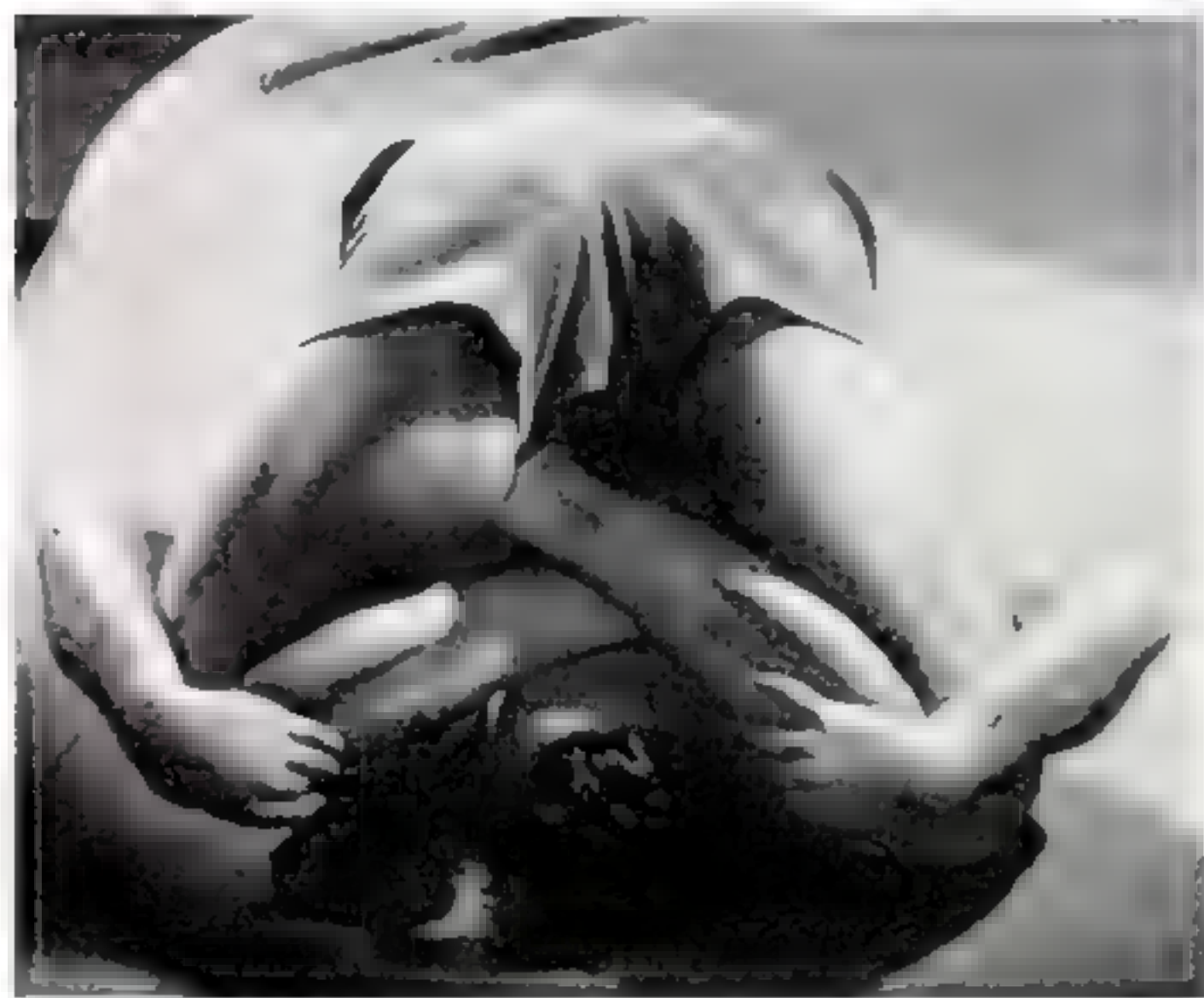
VIOLENT VIRTUOSITY is displayed by Menuhin as he does a *Simhasana* (lion pose) with his Indian yogi instructor. This exercise helps eyes and throat.

Yehudi's Yoga

He tries twists to help him as violinist

Two weeks ago Yehudi Menuhin gave a recital in New York which stirred critics to superlatives unmatched since the violinist made his blazing debut at the age of 8. The former child prodigy, whose last few appearances were disappointing, was hailed as "revitalized." "Whatever private difficulties he has had with his art," said the *New York Times*, "he seemed to have conquered them." Part of the reason for the new Menuhin, he thinks, may be found in these pictures.

A year ago in New Zealand, Menuhin came upon a book of yoga, studied it and began twisting himself in the prescribed contortions. Back in New York he started to work under the tutelage of Yogi Vithaldas (*above*). Menuhin, now 36, is serious about yoga, ranks it and sleep as more important even than violin practice. It gives him, he explains, a sense of "general well-being," and is the only form of exercise convenient for a touring musician. He has tried to get his wife, a former ballerina, to join him. She says, "I've been putting my leg behind my ears for years, but I always got paid for it."



IN KNOTS, Menuhin comes down by gradual stages from a headstand. One yoga exercise like this, the violinist says, is equivalent to 10 miles of walking.

PERFECT PAIR



TO HELP YOU TELL HER!



♥ IN VALENTINE'S DAY

Say it with
Flowers-By-Wire

Hearts and Flowers! Perfect combination for Valentine's Day.

Perfect, too, for Birthdays, Anniversaries, Bread-and-Butter "Thank-You" . . . any event.

You say it softly . . . you say it sweetly when you . . .

SAY IT WITH FLOWERS-BY-WIRE!



You can depend on me, folks! I help add that extra touch of thoughtfulness to any occasion by flashing your floral greetings . . . telegraph-fast . . . anywhere in the world, through more than 18,000 members of F.I.D. and INTERFLORA.

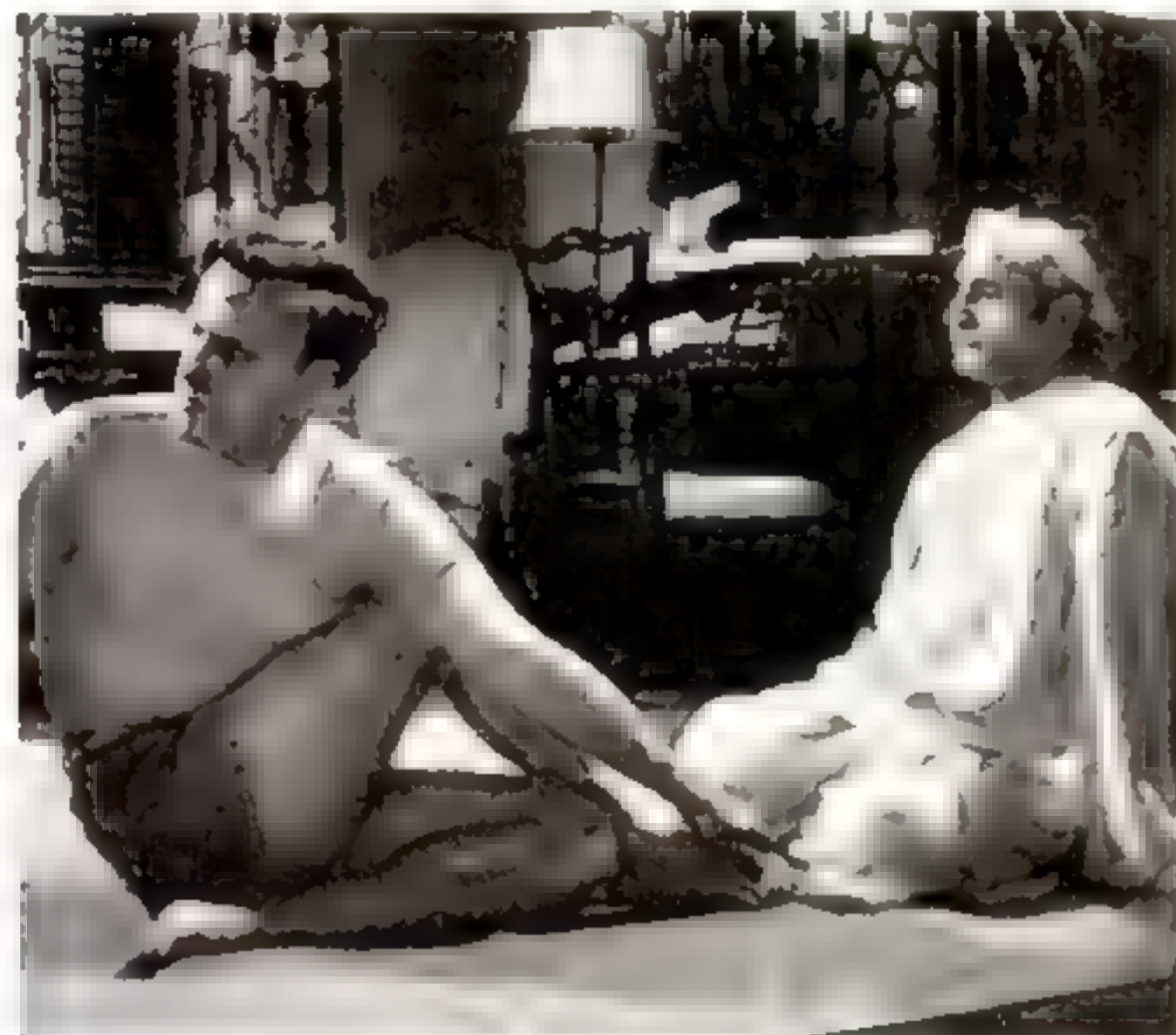
LOOK FOR SPEEDY AND THE FAMOUS MERCURY EMBLEM THEY MEAN GUARANTEED DELIVERY!

FLORISTS' TELEGRAPH DELIVERY ASSN.
HEADQUARTERS: DETROIT, MICHIGAN

YEHUDI'S YOGA CONTINUED



WORKING ON BREATHING in the *Bhastrika*, Menuhin closes his nostrils, holds his breath as long as he can, gets a "light-headed, floating feeling."



TWISTING HIS SPINE in the *Ardha-Matsyendrāsana*, Menuhin turns his torso back and forth to make his back more supple as his teacher relaxes.



CLEANING HIS NOSTRILS in *Neti Kriya*, Menuhin runs cord through nose and out mouth. He says it helps sense of smell, makes his eyes bright.



"EVERYONE'S HAVING
SOUP FOR LUNCH!"

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JULY FRUITS

One Try
and
You'll
Always
Buy



So Many
FLAVORS
and
SO GOOD!

CANDIES

New York 13, N.Y.

CONTINUED ON PAGE 36



Reach your winter sports this convenient, comfortable way!

RENT A NEW CAR FROM
HERTZ

...drive it as your own

Avoid congestion and confusion... you and your favorite companions can stow all your gear aboard a smart new car from Hertz and travel in comfort and at little cost. In most Hertz cities four persons can rent a car for two days and drive it as much as 100 miles for as little as \$5.33 per person, with all gasoline, oil and proper insurance included at no extra cost. So plan now to make your next trip the *inexpensive way*... the *comfortable way*... the *Hertz way*!

HERTZ SERVICE: what it is, what it costs, how to get it -

What It Is... Hertz is a rent-a-car service, International in scope, available in more than 500 cities and resort areas throughout the United States, Canada, Alaska, Cuba, Great Britain, Hawaii, Mexico and Switzerland.

What It Costs... Rates vary slightly in different sections of the country, averaging \$6.65 per day plus 8 cents per mile. Here is a specific rate example: at the Hertz station in Santa Cruz, California, the 24 hour daily rate is \$7.00, plus 8 cents per mile, including gasoline, oil and insurance. Thus, the total cost for a trip of 30 miles in any one day is only \$9.40, whether one person or five ride in the car. Rates are lower by the week.

Gasoline, Oil, Insurance Furnished... Even on long trips, whatever amount you pay for additional gasoline and oil is refunded to you. Public Liability, Property Damage, Fire and Theft Insurance and \$100.00 deductible collision protection are provided at no extra cost.

How To Get It... It's as easy as A-B-C to rent from Hertz: (A) look in your telephone directory under "H" for your nearest Hertz station; (B) show your driver's license at the station and identify yourself; (C) step into a fine new car and go!

Advance Reservations... To be sure of a car when you need it, locally or in some other city, it is well to make a reservation in advance. Any Hertz station will make a reservation for you, anywhere, for any time.

Or, if you have the correct Hertz station name and address of your destination city, you can make your own reservations by letter, telegram or telephone. Also, any railroad or airline reservation office will make a Hertz reservation for you through the Hertz Rail-Auto Plan or the Hertz Plane-Auto Plan at the time you purchase your railroad or airline ticket. Always insist on Hertz when you make your reservation and be sure you get Hertz service when you arrive at your destination.

New Model Cars... Cars rented from Hertz are always current-model cars, of popular makes. The car you rent bears no Hertz identification—it is your private car, for an hour, a day, or as long as you wish.

Charge Cards Available... Hertz Charge Cards (international in application) are issued to well rated business firms and individuals. The card serves as identification, eliminates deposit requirements, and provides credit privileges if desired. Air Travel Card holders and Rail Credit Card holders are accorded the same privileges extended to holders of Hertz Charge Cards.

Additional Information... For information on Hertz stations—anywhere—or for any details of Hertz Service operations, contact your nearest Hertz station or—write or phone Hertz Drive-ur-Self System, Inc., Dept. 223, 218 S. Wabash Ave., Chicago 4, Ill.; phone: WEBster 9-5165.



TRUCKS, TOO... Hertz is also the world's largest truck leasing and rental organization. Trucks are available at most Hertz stations for daily and weekly rentals, or on long-term lease.

Look in your telephone directory
under "H" for your nearest Hertz station

HERTZ Drive-ur-Self SYSTEM

WHEREVER YOU GO... WHATEVER YOU DO...
YOU CAN RENT A NEW CAR FROM HERTZ AS EASY AS



FOR BUSINESS... A SOCIAL EVENT... OR WHEN YOUR CAR IS IN THE SHOP



Raytheon TV

GUARANTEES

all-channel VHF-UHF tuning



✓ **Guaranteed to tune all 82 VHF-UHF Channels**

✓ **No costly strips or bulky converters needed!**

Whether you're buying your first television set or replacing an old one, this is the year to talk TV with a Raytheon dealer. Ask him to give you a side-by-side test with any other leading TV set. He'll gladly explain Raytheon's exclusive VU-matic* tuner. He'll tell you how Raytheon TV is engineered — not just adapted — for reception of all 12 VHF and all 70 new UHF channels.

He'll point out other big Raytheon plus-points — easy-to-read slide rule dial, design of cabinetry, amplifiers that boost weakest signals 2½ million times and extend clear picture range far beyond conventional 50-mile "fringe" limits.



RAYTHEON WELDPower® replaces costly soldering, brazing and riveting; makes strong, permanent precision welds in small ferrous and non-ferrous metal assemblies—faster, better, at lower cost. Write for complete details and prices.

Raytheon's 28 years of electronic experience — your assurance of trouble-free TV performance. Better look this way before you buy. You'll be glad you did!

Set illustrated above:

21" Madrid — magnificently styled in flawless mahogany veneers, this model has earned its popularity; equipped with illuminated dial, one-knob VU-matic tuner, AM radio, connection for phonograph and earphones.

Raytheon TV from \$199.95 to \$750.00, including federal tax and 1-year warranty. Prices subject to change without notice.

*Trademark

Built **RAYTHEON** *Designed*
FOR TODAY... FOR TOMORROW

RAYTHEON TELEVISION AND RADIO CORPORATION
5921 WEST DICKENS AVENUE, CHICAGO 39, ILLINOIS



SEEKING CONTENTMENT, Menuhin takes things easy in a *Sirsasana* (up-side-down pose), which he says refreshes his brain. Although Menuhin says he will never attempt to play the violin while on his head, he wryly recommends this pose for orchestra conductors because then "they could conduct with their feet and still face the audience which is so dear to them."



↑
A
full big
glass of
FLORIDA
ORANGE
JUICE
↓

For the Vitamin C you need every day!

...one vitamin your body can't store up

Here's a real "picture of health!" A gal with winter's color in her cheeks and a full big glass of Florida Orange Juice! A real picture of health because Florida orange juice is one of the world's richest sources of precious Vitamin C—one vitamin you need in fresh supply every day to help build up resistance to infection. Small glasses, all too often, aren't enough.



Florida Canned

Ready to serve at any hour, any day of the year. Natural full-strength and rich in Vitamin C. There's blended Florida Orange-Grapefruit Juice in cans, too.

Florida Fresh-Frozen Concentrate

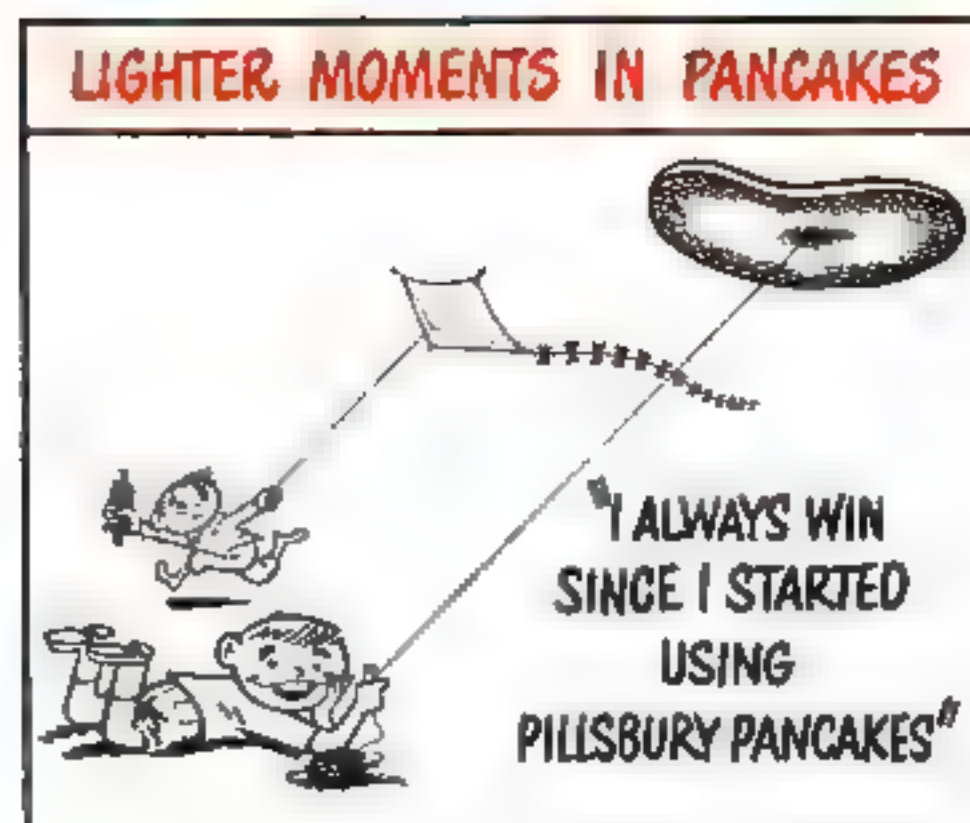
Tree-fresh flavor—full vitamin value in this new handy form. Keep in your freezing compartment. Add three parts water, shake or stir—and pour tall glasses! No sugar added.

Florida Fresh

The sweet juicy oranges, full of Vitamin C fresh from the tree. Floridas go farther—their thin skins leave more room for juice. RIGHT NOW is Florida's fresh fruit season.

Florida Oranges
Florida Citrus Commission, Lakeland, Florida





The Lighter Note in Pancakes

Each and every pancake
a fluff of perfection, laced with
pin-point bubbles.

Swirls of golden brown on the outside.

A froth of delicate flavor
on the inside. All ingredients
blended by a unique Pillsbury
process. Have you enjoyed these lighter
Pillsbury pancakes? Please do.

P. S. Pillsbury Buckwheats
are lighter, too. Milk is all
you add to either one.



Pillsbury
for lighter pancakes

PANCAKE & SYRUP SALE—Look for special displays of Pillsbury Pancake Mix and Vermont Maid Syrup. Get valuable money-saving coupons.

BLUE HEAD of Lincoln, who in real life had black hair and gray eyes, measures 2½ inches in height. In the picture at right it is reproduced, almost twice actual size, next to a 2½-carat sapphire which has been put to a more conventional and salable use.



Sapphire Lincoln

HIS FACE IS CARVED IN A JEWEL

The craggy features of Abraham Lincoln, which have been recorded in everything from fireworks to a mountainside, recently turned up in a far rarer medium, a black sapphire. This portrait, which actually is blue, weighs 1,318 carats, took two years to carve. It is owned by James and Harry Kazanjian, Los Angeles jewelers who have sent it on a tour of the U.S. The Kazanjians also own three more of the world's largest sapphires which will become likenesses of Washington, Jackson and Henry Ford.



He comes in second

EVERYBODY likes a winner, and there are always people ready to cheer for a good loser. But who ever heard a song for the man who comes in second?

So this is in praise of the almost-winner, the nearly-champion, the next-to-the-biggest, the second-best. This is the song of Mister Two.

You hear unflattering names for Mister Two. "Also-ran," they call him, and "runner-up." Names that make you think of a fellow who couldn't quite make it.

Don't let that fool you.

Ask the winner of any race how good a man is Mister Two. He'll tell you it's Mister Two who made him run so fast, Mister Two pressing hard at his heels, threatening always to overtake and pass him.

Ask the salesman who won the contest what kept him plugging after hours, looking for the extra order. Ask the directors of the giant corporation why they keep changing their product, seeking the new improvement, the added advantage.

What drives them? What keeps them hopping?

It's the salesman with *nearly* as many orders.

It's the company with the product *almost* as good.

It's Mister Two.

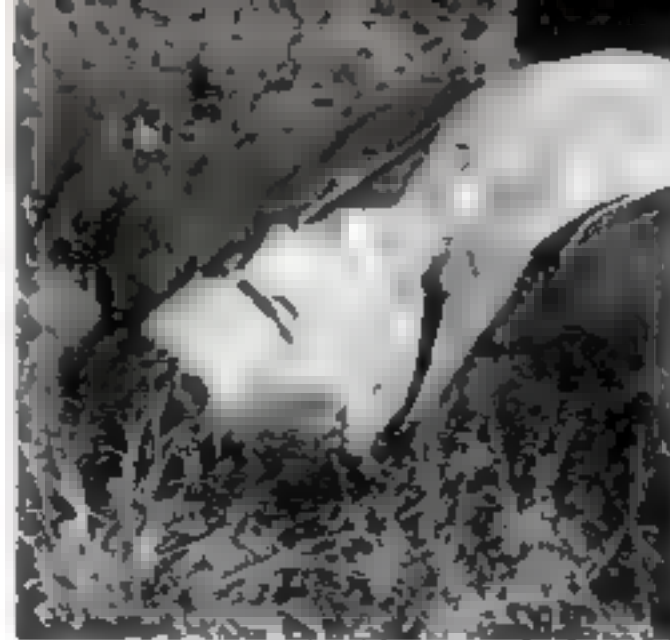
In this country, we're proud of the quality of our champions. Our big men come very big. Our fast men run very fast. Our wise men are the wisest and our great men are the greatest that a country could hope to be blessed with. And why is that? Couldn't it be because, hot on the heels of every champion, runs a great Mister Two? Couldn't it be because great Mister Two's grow naturally in a land where the race is always open and everybody can run?

So this is for you, Mister Two. This is your song. This is for all the days you tried for first, and came in second. It's for the nights when you wonder if you ought to go on trying, since nobody seems to notice . . .

We notice, Mister Two. We know the score. Winner or not, you're a natural champion. There couldn't be a race without you, Mister Two.

John Hancock

MUTUAL LIFE INSURANCE COMPANY
BOSTON, MASSACHUSETTS



CAST MEMBERS SERIOUSLY INJURED IN ACCIDENT (MARKED BY ARROWS FROM PHOTOGRAPHS WHICH RAN IN "LIFE") VISIT BETTY PETROSKI IN THE HOSPITAL

THE SHOW GOES ON

High school cast, battered in truck accident, puts on senior play anyway

Last November, nine days before they were to put on their senior play, 12 students of Luzerne High School (Pa.) were injured when a truck in which they were riding overturned (LIFE, Dec. 15). As an ambulance picked up the broken and bleeding bodies, one boy muttered, "Now we'll never put on the play."

For anxious weeks after the accident it looked as if he might be right. Betty Petroski, the leading lady, was on the critical list with a broken back and internal injuries. Tom Govier had a broken arm and Barbara Yurchak a broken leg. School officials dismissed any immediate thoughts of presenting the

play and some thought it ought to be called off altogether. But as the cast recuperated they became more determined than ever that their show should go on. Tom Govier said he could act despite his arm. Substitutes were found for Betty and Barbara. When someone suggested that proceeds could go to pay Betty's hospital expenses, school authorities gave in.

The play was rescheduled, and ticket sales went so well that it had to be given on two nights instead of one. Betty was still too sick to attend but the cast added \$1,200 to the \$25,000 which a local disk jockey had already raised for her in a public radio appeal.



INJURED were thrown from open-back truck, which struck an abutment, and were scattered along the highway.



Age-old skin secret is true today!
"It is well established that men who
sort wools in the grease form... develop
very soft hands," says F. Eugene Ackerman,
President of the Wool Bureau.

In the gentle hands of shepherds— *the clue to gentler shaving*

For centuries, people have known that men who tended sheep had amazingly firm, smooth hands. And yet this contradicted common sense:

How could these men, tending flocks in chill blasts and scorching sun, have skin so clear and smooth?

And then came the answer! A mysterious natural substance in the fleece of sheep acted to prevent irritation in human skin.

Now scientists confirm that discovery and concentrate 25 times as much of this beneficial substance in a new ingredient—LANOTRATE²⁵—which lets you shave close as you wish without irritating your skin.

With active Lanotate²⁵, the new Williams shaving creams:

1. Actually increase water's ability to penetrate and soften stubborn stubble—for closer shaves...
2. Protect your skin with a lubricant coating, ease the path of the razor

across your face—for faster shaves...

3. Leave active Lanotate²⁵ on the face—easily absorbed, to condition your skin for shaves to come.

Buy the new Williams Lather, Brushless—or the new Williams Instant Lather in the pressure can. See how your razor glides across your cheek!

Special introductory offer

Buy the new Williams today. If you don't agree that it is what you have wanted for years, mail us the partly used container and we'll send you your money back, plus postage.



Lanotate²⁵ is exclusive in Williams Lather, Brushless, and new Instant Lather.



Uncork the Secret of

GOOD SOUP!

just add



Smart copy cats

follow the fashion in travel funds
NCB TRAVELERS CHECKS

A most important part of your travel wardrobe is a wallet of National City Bank Travelers Checks. They'll buy anything you need on your journey, anywhere. Safer than cash, because if they are lost or stolen their value is promptly refunded. Cost 75c per \$100. In denominations of \$10, \$20, \$50, \$100. Good until used. Buy them at your Bank.

The best thing you know
wherever you go

**NATIONAL CITY BANK
TRAVELERS CHECKS**

Backed by The National City Bank of New York
Member Federal Deposit Insurance Corporation

Show Goes On CONTINUED



A FULL HOUSE was guaranteed by advance ticket sales and nearly every seat in the school auditorium was filled long before the play got under way.



BEFORE CURTAIN went up in first act, Nancy Pearl and Roberta Atherton, both of whom were in accident, wait to go on. Nancy shushes players.



SMOOTH PERFORMANCE was given by cast, which went through the play without a hitch. It was a comedy about troubles of timorous schoolboy.

NEW KIND OF MAN'S SUIT



NEW SUIT "TAKES CARE OF ITSELF"

That's what Mike Griggs said after wearing it to work, after wearing it in the snow, after wearing it every day for 14 days.

Shown on this page is a new kind of flannel suit. It is made of a blend of Du Pont *Orlon* and wool. To see how well it would stand up under the punishment of daily wear, Mike Griggs of Greenwich, Connecticut, agreed to wear it every day for two weeks. During this period he had it on for a total of 124 hours. He spent 3 hours in the movies, 22 on trains, and walked a total of 69 miles. He got the trouser bottoms wet walking an hour in a snow storm. Yet at the end of the wear test, it didn't even need to be pressed.

Men who want to keep their clothes looking neat without spending a lot on cleaning and pressing bills will find suits that make proper use of *Orlon* acrylic fiber a big help. Flannels and tweeds are now on the market in limited quantities. Tropicals will be available in time for the hot weather, and worsted blends for both spring and fall. When they make proper use of *Orlon*, they have the appearance and texture that men associate with the finest-quality fabrics.

Orlon is just one of the modern-living fibers developed by the Du Pont Company in its never-ending search for "Better Things for Better Living ... through Chemistry."

ORLON is Du Pont's trade-mark for its acrylic fiber

IT'S THE "ORLON" IN THIS HANDSOME FLANNEL SUIT THAT HELPS IT KEEP ITS SHAPE AND PRESS EVEN WHEN DAMP



START OF WEAR TEST in which a suit of "Orlon" acrylic fiber was worn every day for two weeks.



END OF WEAR TEST shows the suit's superior ability to stand up under the punishment of daily wear.



LIMITED SUPPLY of "Orlon" is now available in curtains, yard goods, and clothing for all the family.

New advance in papermaking science brings you a New ScotTissue . . .

Now Softer! still Softer!



Everything that touches his tender skin must be cloud-soft. New ScotTissue is ideal for baby—unfailingly gentle, yet instantly, cleanly absorbent and strong enough to resist shredding.



Your favorite bathroom tissue is softer than ever—whiter, with greater body . . . at no increase in price

New ScotTissue is "water-woven" by an entirely new process to bring you a new wonderful softness. Only Scott makes a tissue this way.

Whiter too! Only pure "white" pulp goes into the New ScotTissue.

The New ScotTissue is gentler than ever for baby's tender skin—your best choice for every member of the family.

This new improved tissue is now on sale at your grocer's. It is another great Scott paper value . . . more popular than ever. So be sure you get a supply for your family right now.

"ScotTissue," Reg. U. S. Pat. Off.



1,000 sheets—over ½ more than the 650 sheets you get from most other brands



New ScotTissue is gentler than ever for baby's thinner skin

1,000 Sheets *to a roll!*

2 rolls of ScotTissue give you more sheets than 3 rolls of most other brands

It won millions of new friends in '52 — now 5 ways finer for '53 — RCA VICTOR TELEVISION *with "Magic Monitor"*

America's largest-selling television
adds new features . . . inside and out
. . . in 23 new models . . .
each with big, new advances!

1. New, automatic "Magic Monitor" circuit system

An RCA Victor exclusive! Brings in the best TV pictures possible and holds them at their finest — AUTOMATICALLY!

- automatically screens out interference from cars, planes, electrical equipment
- automatically steps up power when necessary
- automatically tunes in best sound with best picture



2. Improved "Deep Image" picture tube

Has micro shock extra beam tube for deeper, sharper, so much more detailed pictures. Gives crystal clear, deep-image pictures.

3. New long-distance reception

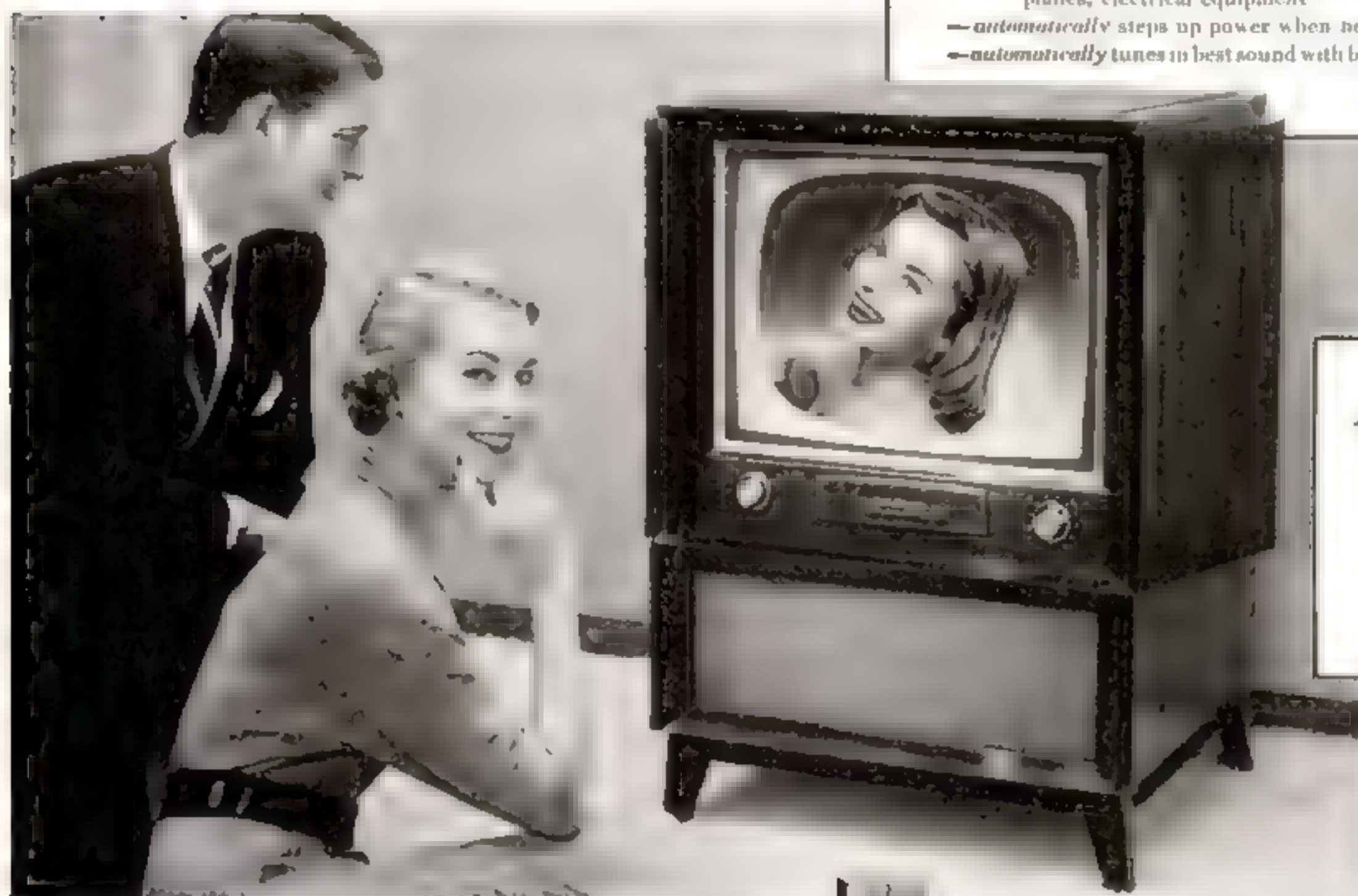
Steps up picture performance far-out places as greatly as ever. So you can see TV guests better through the farthest RCA Victor "Golden Throat" microphone.

4. New, automatic UHF-VHF tuner

Automatic tuning is a new advance. It tunes in any of the 13 channels of UHF or VHF. It's the same as many other UHF tuners, but it's the only one that gives you the best picture and sound with the least effort.

5. New, wider range of cabinets

More styles than ever before in RCA Victor history. Modern, temporary, colonial, Provincial, luxury, Empire, Finishes include mahogany, hickory, walnut, maple, cherry.



Now five ways finer, these new models have all the famous features that have made RCA Victor the most-loved television for 7 straight years!

Famous "Golden Throat" tone system for the finest listening. Phono-jack for record changer.

Matchless experience . . . RCA has led the way in every phase of television. To bring you more and better television, RCA built and operated the first regularly scheduled UHF television station.

Sensible prices . . . always include Federal Excise Tax and full-year picture tube warranty. On wood cabinets, no extra charge for mahogany finish.

The ONLY nationwide Factory Service. Complete installation and service by experts of the RCA Service Company. Available only to RCA Victor owners. Ask your dealer for details.

For your first TV set, or to replace a small-screen "veteran"—see your RCA Victor dealer!



The 21" Dobson. Just two control knobs, for quick easy tuning. Mahogany finish. In. Look extra! Model 2113. \$199.95

See the complete new RCA Victor TV line . . . starting at \$199.95



Prices shown are suggested retail prices. Subject to change without notice. See your dealer for details.

17" Wayne. Great new advance at a value in price. Mahogany finish. Mahogany (and extra) Model 1701. \$149.95

21" Stockton. Majestic Regency styling in fine mahogany or walnut finishes. 2113. \$179.95



21" Merrill. The new Dobson picture tube. See your dealer for details. A new light-colored mahogany finish. Model 2117. \$199.95

Every year more people buy RCA VICTOR

than any other television



See the RCA Victor Show starring Dennis Day over NBC Television, Friday, 8:00 pm, EST

For More Comfort . . . Better Health . . . Better Living —Get RCA Room Air Conditioning



CHAMPION RANCHO DOBE'S STORM DEMONSTRATES CUSTOMARY POISE AS HE SITS FOR PRE-DOG SHOW PORTRAIT ON A 17th CENTURY BRUSSELS TAPESTRY

Dog of Distinction

The defending titleholder is a failure as a man-eater but a success as a showman

by ROBERT WALLACE

ON the eve of the Westminster Kennel Club Show, the heavy-weight championship of the dog world, the defending titleholder is relaxed and apparently confident. His training routine has tapered off into light roadwork, and, since he will have no difficulty making the weight, his diet is normal. The fact that on Feb. 10 he must attempt the enormously difficult task of repeating his last year's victory, against 2,561 dogs and before 12,000 people in New York's Madison Square Garden and an additional audience of one-half million on television, appears to be of no concern to him.

The titleholder is Champion Rancho Dobe's Storm, a three-year-old Doberman pinscher. People who are not familiar with Doberman pinschers are inclined to form misconceptions about the breed; they suppose the Doberman is as ferocious as he appears. Storm is the color of anthracite and of doom. He has teeth like a chain saw, evidently adapted to ripping the buttocks off postmen. He weighs 92 pounds and has muscles like onyx, excellent for bowling over children and the elderly. The look of a Prussian field marshal is in his face. A single glance at him through the kitchen window can turn the



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DOG OF DISTINCTION CONTINUED

heart of a salesman to water. And yet, despite this vastly menacing appearance, Storm has never sunk a fang in anyone in his life. In short, those who are naive enough to expect his performance to live up to his appearance, will conclude that he is a big, soft hearted failure

Apologists for this seeming ne'er-do-well may find some crumbs of justification there. Storm had a hard time.

He was born in Van Nuys, Calif. on Dec 12, 1949 at the Rancho Dobe (for Doberman) Kennels of Mr. and Mrs. Brint Edwards. His mother, Champion Maedel von Randahof, was feeling poorly at the time he was whelped, produced a prodigious litter of 13 and died soon afterward. So did most of her litter, which she could not nurse properly. Only four survived—Storm and three sisters, Zephyr, Breeze and Gale—all kept alive by a foster mother. All of Storm's sisters came to sad ends—Zephyr and Breeze were killed by automobiles, and Gale went into television. She now appears, doing tricks, on a Los Angeles program called "Man's Best Friend."

Twelve floors down, 12 floors up

WHEN he was three months old Storm was put in a crate and air-expressed to a New York advertising executive named Len Carey, a vice president of Batten, Barton, Durstine and Osborn, who had left a standing order for the next really promising male puppy the Edwardses might have available. Carey was familiar with Dobermans, having bred, shown and judged them for 15 years, but was in a poor position to bring up a puppy at the time. He lived, with his wife and son, on the 12th floor of a Manhattan apartment building. Still, he placed some confidence in the stoic dignity of the breed. An animal with 25 generations of canine aristocracy behind him, whose ancestry included Champion Jessy von der Sonnenhoehe and Champion Troll von der Englesburg, might have been expected to control himself in the elevators. As it turned out, Storm would stand erect in the manner of a champion, his dark brown eyes fixed piercingly on the elevator operator, and commit a nuisance. His disgrace became known to all the operators in the building, who competed with each other for the privilege of not carrying him as a passenger. Carey is one of the few people who recall New York's great elevator strike with pleasure. "Twelve floors down and 12 floors up, four times a day. It housebroke the dog and made a man of my son Jeff."

When he was four months old Storm had his lone chance to establish a police record, the mark of any truly savage dog. Mrs. Carey was exercising him in Central Park and allowed him to slip off his leash, whereupon he was seized by a cop. The charge—permitting an animal to run at large—was presented to a judge who believed in fitting the punishment to the crime. A superlatively vicious dog might have earned a fine for his owner of \$25. Even an average dog might have got \$5. Storm, after a thorough appraisal, drew a humiliating \$1.

On the one big occasion when he might have bitten a man, Storm suffered a mild traumatic shock. Mrs. Carey had left him in a parked car, with a window open for ventilation, and the sight of him sitting erect on the seat, like a passenger, attracted a passing drunk. The drunk stuck his fist through the open window and waggled it belligerently under Storm's nose. Mrs. Carey returned to the car at that point and warned the drunk, who paid no attention. "That dog turned around and looked at me as though he were asking, 'Do you really want me to bite this guy?' I got in the car and drove away, and all the way home Storm lay on the floor and trembled."

However, although Storm will stand a good deal of abuse from children and sober adults as well as drunks, his fierce appearance and thunderous bark make him an excellent watchdog; and there is no doubt that under extreme provocation he could, and would, remove a man's arm at the shoulder. But he would not enjoy it. (Some experts claim that cocker spaniels, dog for dog, bite far more people than Dobermans. And the Saint Bernard, supposedly a trusty friend to fainting travelers, can be a deadly enemy. Saint Bernards are no longer used very much to search out lost skiers or other casualties in the Alps, partly because better communications have outmoded them, but also partly because they have been known to tear wayfarers to bits.)

While failing utterly as a man-eater, Storm began at an early age to prove that he was going to be a success as a show dog. He was entered in his first adult show, at the Yonkers Kennel Club in 1951, when he was only 16 months old. Many dogs require weeks or even months of training before entering mature competition, but he was able to learn all he needed to know in exactly

CONTINUED ON PAGE 110

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gredient combines both benefits, the highest medical authorities say it is probably the *safest* and *most efficient* of all pain-relieving drugs. It is so gentle to the system, doctors prescribe it even for small children.

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your pain—makes you feel better—*fast*.

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Top left: General's L-K Model S-550 makes complete Kitchen-With-Oven in 48" by combining with any 20" apartment range! 4 cu.-ft. capacity, storage drawer, inner door shelf, horizontal freezer, and topped by 1-piece porcelain sink, drainboard and back-splash.

Middle: General Chef combines 4 cu.-ft. refrigerator with 3 electric burners, 220 volt, in only 4.1 sq. ft. of space. Also available with 3 gas burners or 2 electric burners for 110 v. plug-in use. Range heats do not affect refrigerator temperatures.

Below: General's Executive Refrigerator has acid-resistant formica table top and choice of finishes: flame-grain mahogany, blonde, walnut, knotty pine or gleaming white. Size, space-saving features, same as units above, including ice-cube tray capacity. Ideal for offices, home bars, apartments, hotels.

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DOG OF DISTINCTION CONTINUED

10 hours. He defeated all the other Dobermans in the show, although he was beaten for group winner and best in show by a boxer. (For an explanation of the complicated terminology of dog shows, see the box on this page.)

In Storm's subsequent shows—he has entered 24—he has invariably been picked best of breed. He has been group winner 21 times, and best in show, 16. His arch-rival has been the great boxer, Ch. Bangaway of Sirrah Crest, bred by a gentleman named R. C. Harris who likes to spell his last name backwards. Bangaway has beaten Storm twice in the group; Storm has beaten Bangaway four times, notably in last year's Westminster.

How champion dogs are picked

Although the rituals and terminology of dog shows are complex, all shows have the same general structure. After working his way through a number of complicated minor categories, the dog's first important step is the competition within a breed. All members of one breed, both dog and bitch, champion and nonchampion, are judged in a series of competitions until only one animal remains. That one is called best of breed. The breeds are then lumped into six groups—sporting dogs (such as setters, pointers and spaniels), hounds, working dogs (Dobermans, shepherds, boxers), terriers, toys and nonsporting dogs (chows, Dalmatians, poodles). The outstanding dog in each category is called the group winner. All of the six group winners are then judged together, and from them is picked the individual which will be designated best in show. In any case, the three classifications, breed, group and show, are the heart of the matter. In a major show such as the Westminster or the Westchester the best nonchampion dog and bitch are usually awarded five points. Victories in smaller shows are worth from one to four depending on the number of competitors. When a dog has earned 15 points, he becomes a champion and "Ch." may be placed before his name, although he may never have been a breed winner, group winner or best in show in his life.

Why Storm should have required only 10 hours' training for his first show, and scarcely more than a brief refresher course for any show since, is a matter of some wonder to dog exhibitors and handlers. The answer lies partly in Storm's magnificent physical equipment; he has no significant defects. The list of these is long and gloomy—he might have been cow-hocked, rabbit-footed, fiddle-fronted, roach-backed, ewe-necked, dish-faced, paddle-gaited, waspy or ram-headed—but by good chance he was not. Thus he needed no special training to conceal or minimize a point that might have counted against him in the judging.

What is more important is the fact that Storm was born with the temperament of a real showman. Judge Joseph P. Sims of Philadelphia, who selected Storm as best in show at last year's Westminster, said precisely that at the time of judging. "The dog is a great showman and never lets up. I couldn't get away from him."

Storm enjoys dog shows. He knows how he has done, apparently, by the behavior of the photographers after the judging. "He knows what a flashbulb is. He's a real ham." Carey says this almost apologetically, as though he would like to conceal his great affection for the dog. But the spectators at the Westminster last February also found this to be true. During the final judging Storm stood motionless for 13 full minutes while Sims looked over an English setter, a Welsh terrier, a wire-haired dachshund, a standard poodle and a Brussels griffon. As Storm held his pose—few human beings, let alone dogs, can stand still for 13 minutes—the eyes of one onlooker after another swung to him and remained fixed, until at the last 12,000 people were staring breathlessly at him. Finally Sims approached him, and at that instant Storm turned his head, peered puckishly up at the judge, then resumed the pose. "He was asking for it," Carey says, "really asking for it." The crowd gave one prolonged roar, and kept on roaring until Sims signaled that Storm had won the show.

In addition to his physique and his showmanship, Storm has a vast desire to please. Peter Knoop, a professional handler of Lynbrook, N.Y., who has worked Storm in most of his shows and will work him again next week, regards him as the most earnest animal he has ever seen. "I got my first Doberman in 1926, but I've never

CONTINUED ON PAGE 112



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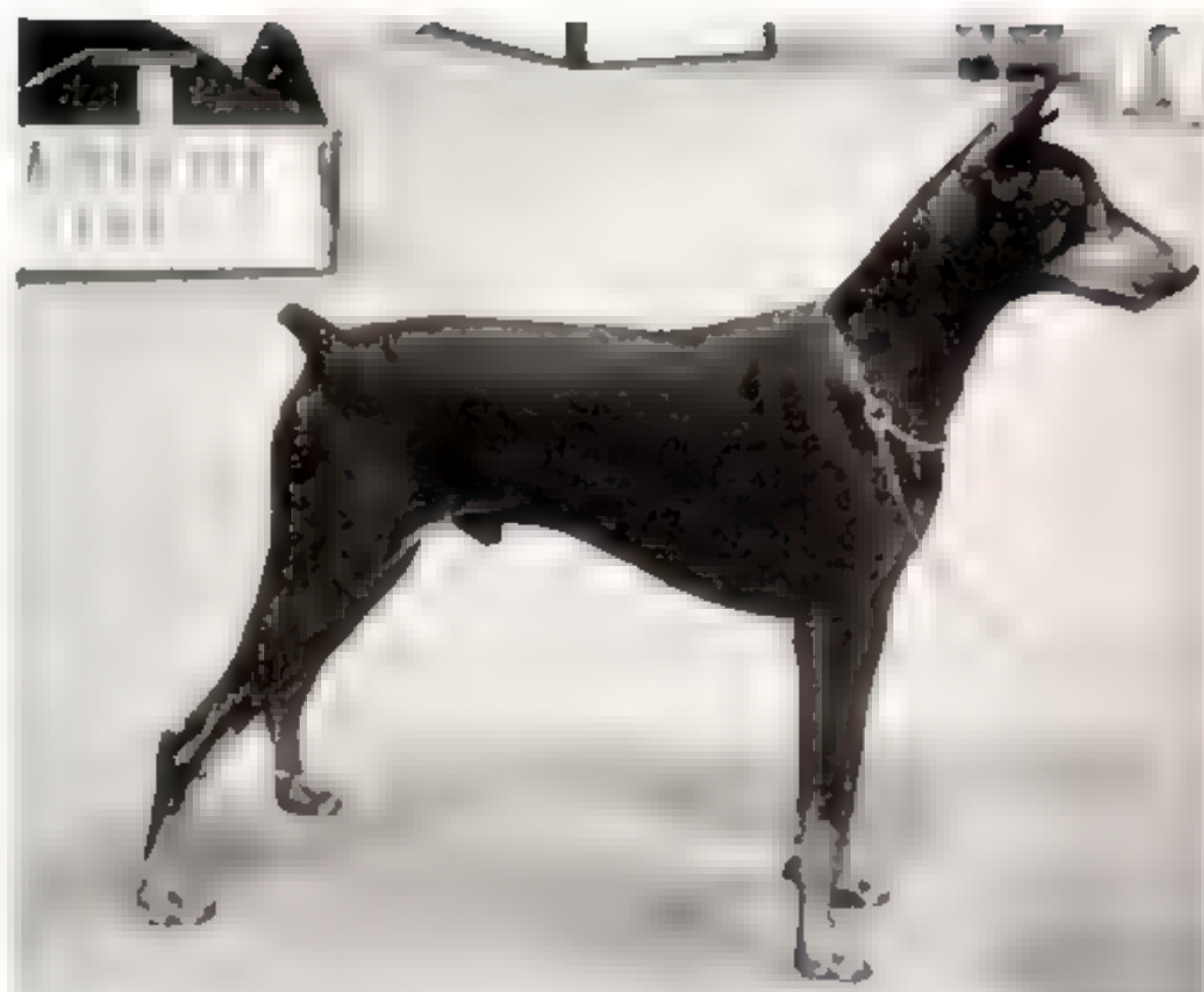
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PERFECT STANCE is held by Storm after the judging at last year's Westminster show. He held pose like this for 13 minutes before judge picked him.

DOG OF DISTINCTION CONTINUED

seen one as good as Storm. As soon as he figures out what you want him to do, he'll break his neck trying to do it for you." In a show Knoop's first object is to keep Storm in an alert, dignified position at all times. Even though the judge may be examining another dog 50 feet away, he may turn and glance briefly at Storm, and if he catches him lying down or scratching his ear, all is lost. Knoop's second chore is to "gait" the dog, to run him back and forth, at a command from the judge, so that his muscles and motion can be studied. Gaiking is relatively easy for Storm.

All handlers have their own methods of keeping a dog's attention during a show. Some handlers constantly emit faint whistles or squeaks. Others carry objects in their pockets—balls, bones, rubber mice—which they occasionally whisk out, wave at the dog and replace. Knoop is a rubber-mouse man, and Storm is a dedicated rubber-mouse dog. During a show, although not while he is in danger of being observed by a judge, Storm sneaks around and steals mice from other handlers, and frequently ends an evening with a large collection which he holds in his mouth, the tails sticking out in all directions.

Knoop's are in the hole is not a mouse, however, but a handful of chopped liver, cooked and finely flavored with herbs, which his wife prepares before each show. One whiff of this makes Storm appear to be the most alert dog in the ring.



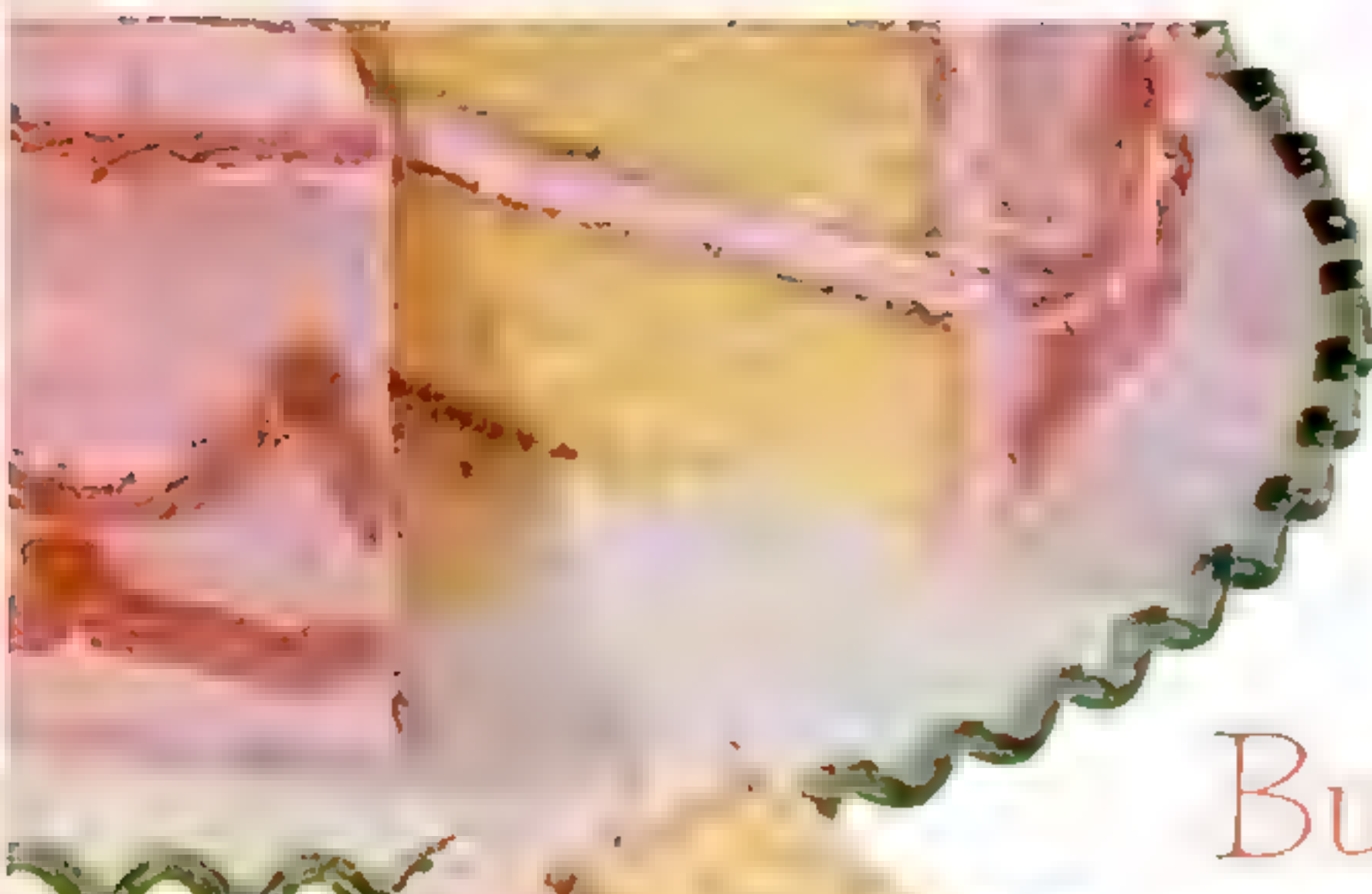
RUBBER MICE project tails from Storm's big mouth. He collects them by the mouthful.

The production of a dog of Storm's appearance and temperament is a considerable triumph for his breeders, the Edwardses. Dobermans are among the youngest of breeds, having been recognized for only a little more than 50 years, and only one other has won the Westminster—Ch. Ferry von Raufelsen of Giralda, Storm's maternal great-grand sire. The breed originated in the city of Apolda in the then state of Thuringia in Germany sometime in the '80s and takes its name from one Louis Dobermann, who was both a garbage man and a dogcatcher. Why Dobermann, of all men, should have wanted to breed a big, tough watch-

dog is a great mystery, as it might be if the Adam hat people were to express an interest in developing a buzzard-sized pigeon. Still, Dobermann did it. Apparently he began with the pinscher, a smooth-haired, medium-sized German terrier, and bred to it an unknown number of unknown dogs. In the modern Doberman experts believe they can detect the blood of shepherd dogs, black-and-tan terriers, rottweilers and even greyhounds. After Dobermann's death a man named Otto Goeller, also of Apolda, took the breed in hand and brought it approximately to its present state.

Storm, the ham, lives a life of great ease and luxury. Two years

CONTINUED ON PAGE 115



When a better cake is made

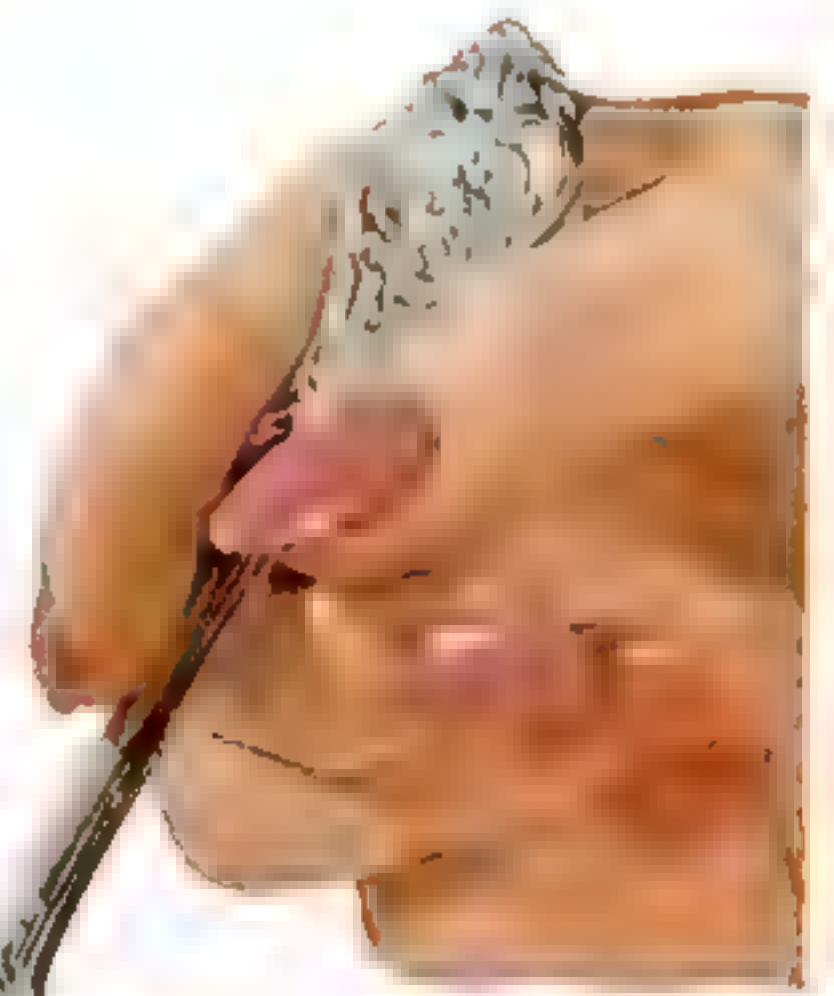
Naturally it's a Butter "Party" Cake

Butter Party Cake

Whenever you make it... it's a Party!

2 cups sifted cake flour	1 1/4 cups sugar
2 teaspoons baking powder	2 eggs
1/2 teaspoon salt	1 teaspoon vanilla
1/2 cup butter	3/4 cup milk

Preheat oven to 350° F. (Moderate.) Grease two 8-inch layer cake pans, 1 1/4 or 1 1/2 inches deep. Dust with flour or line bottoms with waxed paper. Sift together cake flour, baking powder, salt. Cream butter until soft and smooth. Gradually add sugar, beating until well blended. Add eggs and vanilla. Beat until thick and fluffy. Add sifted dry ingredients and milk, alternately, beating well after each addition. Pour into prepared pans. Bake 30-35 minutes until center of cake springs back when lightly touched. Let cool on cake racks before removing from pans. Frost with Pink Butter Frosting. Decorate with cinnamon candy hearts, or any other "party" candy.



Butter frosting

So easy! And perfect for decorating cake!

Cream 6 tablespoons butter until soft and smooth. Blend in 3 1/2 cups sifted confectioners' sugar and about 1/4 cup cream, alternately, adding just enough cream to make smooth, spreading consistency. Add vanilla. Add few drops coloring to tint frosting pale pink. To about 1/2 cup frosting add a little more color for darker pink festoons. After spreading frosting between layers and on top and sides of cake, pipe festoons with pastry tube, using small rosette point, on top and sides of cake. (See illustration.) Place candy at points of festoons.

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DOG OF DISTINCTION CONTINUED

ago the Careys built a house in Cos Cob, Conn., a commuters' town 30 miles from New York, with enough land and trees to please even the largest dog. He sleeps on a large, comfortable bed, which he is kind enough to share with the Careys' 16-year-old son, Jeff. His meals—a pint of milk, a cup of crumbled biscuit and an egg for breakfast, and a pound of canned beef and three cups of biscuit for dinner—are served to him promptly. When he returns from a walk outdoors, one of the Careys is always on hand with a towel to wipe the mud off his big feet, which he holds up proudly in succession. Jeff Carey dutifully brushes Storm's black, glossy coat once a day.

Unlike a long-coated dog or a clipped poodle, Storm does not have to endure any tiresome grooming before a show. Carey merely pares his toenails and works him over briefly with clippers, cutting his whiskers and other protruding hairs flush. Nothing else is done to him. Last week Handler Knoop, who had not seen Storm in six months, put him through a half-hour of posing and gaiting. Knoop will not see him again until they enter the ring together next week.

Although Storm is barely three years old, he has what may seem a large number of children: 300. Many other creatures spend a great deal of time in pursuit of the opposite sex; Storm's mates are sent to him in crates, air express prepaid, from points as far away as the West Coast, New Orleans and Canada. The litters he sires average six puppies, and for some reason far more than half of his children are male—he has sired litters of six, seven and eight which were entirely so. His stud fee, before he won the Westminster last year, was \$100. It is now \$150.

Carey expects to enter Storm in only a few more shows and is thinking of retiring him after the Greenwich Kennel Club Show in June. Just now the dog is in peak condition and will remain so for another year or two, but Carey prefers to quit while Storm is winning. A great many judges have seen the dog and have thrust approximately 150 pounds of silverware upon him. A great many crowds have applauded him, and a great many rival dog owners have gnashed their teeth at him. Sooner or later the feeling that Storm has won once too often may take hold of the crowds and even of the judges, and Carey likes his dog too much to risk having him beaten on that account. As it is, Storm's chances of repeating his victory next week are no better than even—only five dogs in the 76-year history of the show have won twice, and the inclination to knock down the champion is as strong in this sport as in any other. "There are some tremendously good dogs in the show," Carey says, "and somebody may have something under a bed in Kansas City that will knock us all dead."



CHAMPION'S TROPHIES adorn the study where Storm lounges with his master, Len Carey. Storm's collection, won in only two years, numbers 64.

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Life Visits



DIAMOND DECKED DERBY

The King of Cambodia

HE RULES HIS LAND WITH A VERSATILE HAND

Tucked away in a corner of southeast Asia, clinging to a fabled past but being pulled into the troubles of modern times, lies the story-book kingdom of Cambodia. There under a golden roof, in a barbarically ornate but air-conditioned throne room, a many-aided monarch sits. He is King Norodom Sihanouk, a bachelor who enjoys watching his 30 dancing girls, relishes kingly repasts opening with 10 kinds of hors d'oeuvres, and delights in all pomps and prerogatives of his office—except one. When LIFE's photographer asked him to don the royal derby, studded with a \$15,000 diamond and worn for motoring by former kings, he said, "All things are possible—but not that!"

Norodom Sihanouk, chosen in 1941 when the reigning king died without designating an heir, has become renowned for other tastes and talents which, to his subjects, must seem even more exotic than the bejeweled bowler. He is a jazz musician, a composer, a painter and a ham

actor (p. 122). Graduate of a French Cavalry school—Cambodia, an Indo-Chinese state, belongs to the French union—he is an expert horseman and has a stable of 20 blooded steeds. A sports car enthusiast, he dotes on his succession of fast, expensive convertibles.

All these hobbies may have led the Vietminh Reds, tempted by a languorous land so rich in rice, fish and climate that nobody has to work very hard, to mistake the king for an easy mark. Last year, aided by treachery at home and bandits on the sidelines, they moved in on him. But, ousting his cabinet and taking over as dictator, the king quickly consolidated the capital, Phnompenh, which, legend says, was established 580 years ago when a noble lady found bronzes of four Buddhas and a Hindu god in a hollow log there. Then, near the ruined city of Angkor, the 30-year-old king took personal charge of a battle in which his forces, spear-headed by war elephants, put the Reds to rout.



UNDER ROYAL RED UMBRELLA HE LEAVES PALACE



AT BUDDHIST RITES king kneels in Silver Pagoda facing youths who are being ordained *Bonzes* (priests). Around king are vessels of food and ancient

rifle symbols of royal authority. A devout Buddhist king himself once shaved his head, joined *Bonzes*, spent three months begging alms to give to charities.

when hair loses that
"vital look"



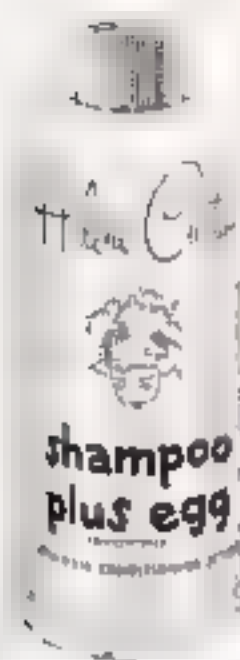
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Cambodian King CONTINUED

TIME OF WORK AND WAR



COMMON TOUCH is kept by meeting subjects who exchange gifts like fruit or eggs for presents of \$1.50 to \$5. King hears 500 of his people weekly.



SOLDIER'S REST refreshes King, who has taken off wet pants after pursuing Reds in swamp. He eats dinner of rice while cook readies champagne.

RELIEVES PAIN OF HEADACHE NEURALGIA NEURITIS

FAST

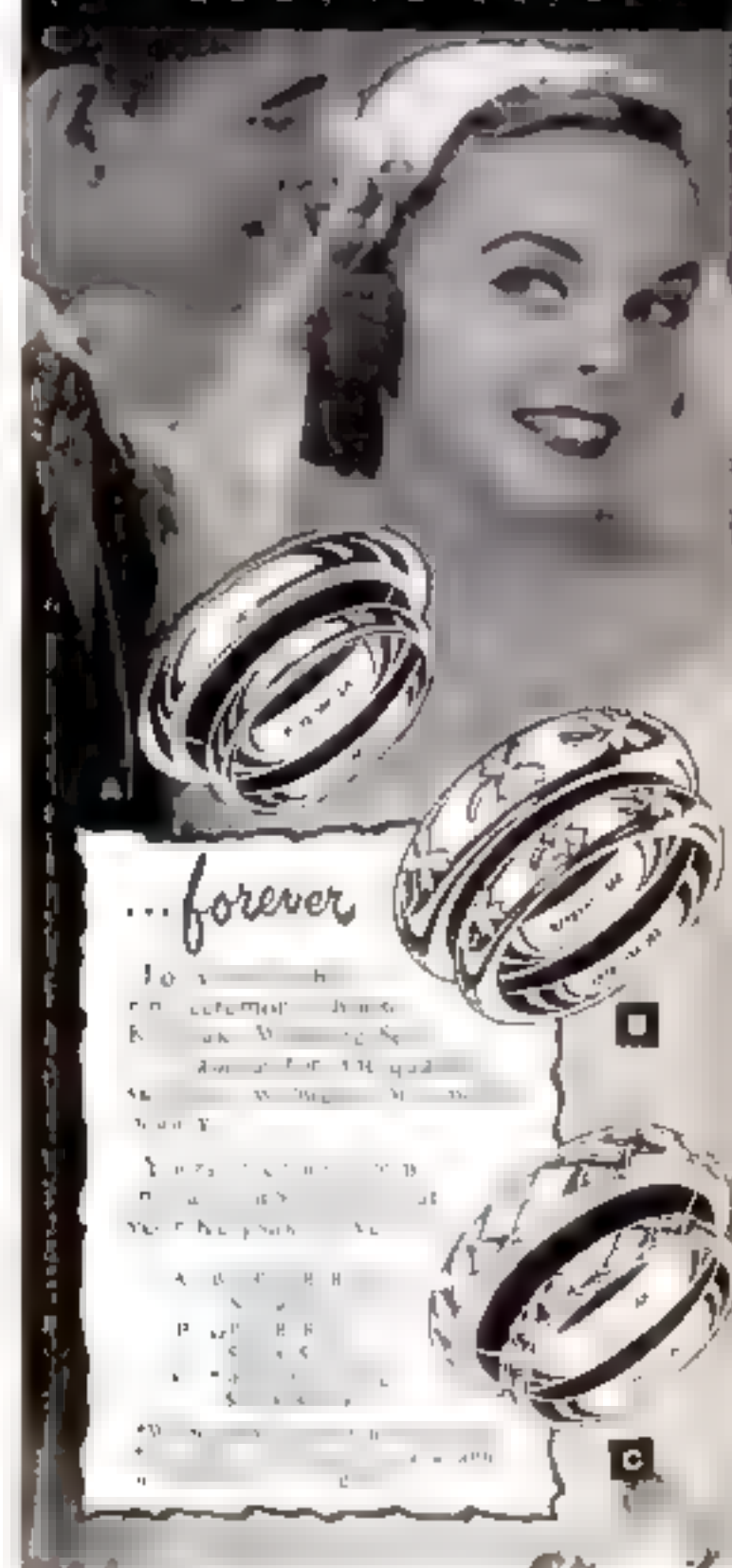
The way
thousands of
physicians
and dentists
recommend



Here's Why...

Anacin® is like a doctor's
prescription. That is, Anacin
contains not one but a com-
bination of medically proved
active ingredients. Anacin is
specially compounded to give
FAST, LONG LASTING relief.
Don't wait. Buy Anacin today.

Keepsake WEDDING SETS



Keepsake is a registered trademark.
See Keepsake Diamond Rings on page 10.
A. H. POND CO., INC. SYRACUSE 2, N. Y.

CONTINUED ON PAGE 121



Red Delicious. A top favorite for eating raw. Crisp, juicy, low acid—a dash of Morton's brings out its full flavor.



Winesap. Hard, slightly tart, with a rich winey taste. One of the best keepers. At its best after a slight touch of frost.

Any apple worth its salt ...is worth Morton's

America's best selling table salt. More people use Morton's because "when it rains it pours." Available iodized or plain.
(Morton pioneered iodized salt 29 years ago to help prevent simple goiter.)



When it rains
it pours



Yellow Newton. A versatile variety, good for both eating and cooking. Plentiful January to June. Also called Albemarle Pippin.



Rhode Island Greening. One of the oldest, originated around 1700. The pies and sauces made with it profit by a pinch of Morton's.

CLINTON

the quick-starting engine

This Arrowhead Emblem tells you it's a Clinton Engine—one of the millions of Clinton Engines which power everything from lawnmowers and garden tractors to post-hole diggers and farm

elevators. For the quick-starting reliability you want—get this Clinton Arrowhead Emblem on the Engine of your next lawnmower, garden tractor or other power equipment!



Here's the famed

CLINTON 2-Cycle ENGINE

which combines these features—

- ★ Quicker Starting—snap the cord, away she goes!
- ★ Lighter-weight—amazingly "feather light"!
- ★ Safer—thanks to features like protected flywheels, etc!
- ★ Better service—backed by world's greatest 2-Cycle Service

One of 9 Basic Models—Other models include several each of both the standard-type and vertical-shaft 4-cycle engines, with hundreds of variations. In their horsepower range and in the last 6 years, more Clinton Engines have been sold, more bought and more are in use today than any other brand



Model VS-200

*Service and Parts
Everywhere!*

There are 3,584 Clinton Authorized Service Stations in the United States. Each of these Stations features a FREE ENGINE CHECK-UP to anyone who owns a small gasoline engine. Compression, carburetion and ignition are checked ABSOLUTELY FREE.

CLINTON ENGINES are manufactured by
CLINTON MACHINE COMPANY
MAQUOKETA, IOWA

*Exclusive Power
for this Great New Product!...*

CLINTON CHAIN SAW

Quick-Starting—the only Chain Saw powered by this excellent Clinton Engine

Light-Weight—made of light strong metals for easy effortless handling

Fast—never such cutting speed per-pound before—Speed that amazes you!

Versatile—does almost anything—fells, under bucks, rips, bores, lops and prunes

Unmatched Service—Outstanding in the chain saw field



Never Before Such Value
Only \$239.50

FOB Clinton, Mich.

Write for free folder
and address of nearest dealer



CLINTON CHAIN SAW DIVISION

CLINTON, MICHIGAN

Cambodian King CONTINUED

MEDALS AND MYSTIC LORE



KING'S CONCH-BLOWERS, Bakous of Brahmanical faith, stand in the throne hall guarding the busts of four former kings and the present one.



KING'S MEDALS, which he calls "souvenirs" and awards freely, include one for "feminine merit." He has given it to hostesses after a good meal.



KING'S ASTROLOGER strives to pick good days for all deeds. King postponed a state dinner for LIFE's photographer at the astrologer's suggestion.

CONTINUED ON NEXT PAGE

HEY-WHERE IS EVERYBODY?

OUT HERE-EATING UP THE UNDERWOOD SANDWICHES!

TIP:
Underwood sandwiches and snacks are the hit of the party every time. That superb Underwood flavor delights everybody!

UNDERWOOD DEVILED HAM

REPLACEMENT OF A STAMP OF GOOD GUARANTEED BY Good Housekeeping

THE ORIGINAL...ALL FINE HAM...ZESTFULLY SEASONED

Send for FREE RECIPE FOLDER! Wm. Underwood Co. 10 Walnut St., Watertown 72, Mass.

Bobbie Brooks

these are the blouses that every girl loves—beauty and detailing beyond compare. \$3, \$4 and \$5 at good stores everywhere.

For store nearest you, write:
BOBBIE BROOKS
Cleveland 14, Ohio
New York 18, N.Y.

AFTER SHAVING



Helps keep your chin up!

When you look right, you feel good! Mennen Talcum for Men helps you look your best for hours after shaving. Helps cover nicks and blemishes. Dims face shine! And neutral tint won't show.

AFTER BATHING



Helps keep chafe down!

Dust yourself freely with Mennen Talc after every bath or shower! Keeps you cool, dry, comfortable and chafe-free longer! Finest imported Italian talc, micropulverized for fineness!



Largest-selling men's talc in America

Cambodian King CONTINUED

FUN AROUND THE PALACE



AN ARTIST, Sihanouk paints outside palace, but rarely since political duty became heavy. Taking "much pleasure" in art, he gives most canvases away.



A SAXOPHONIST, king plays in Royal Jazz Band. He also plays accordion, croons in four languages, composes own music—mostly rumbas and sambas.



AN ACTOR, king appears in *Thousand and Two Nights* with wife of minister of justice as Scheherazade. King has made 32 movies, mostly slapstick.

Here's to **FIRST AID** FOR **COLDS**



Alka-Seltzer

SPEEDY RELIEF FOR THESE COLD DISCOMFORTS

ACHE-ALL-OVER MISERY
FEVERISH FEELING
HEADACHE

SORE THROAT OF A COLD



ACID INDIGESTION
HEADACHE
MUSCULAR ACHES

MILES LABORATORIES, INC., ELKHART, IND.

Puss 'n Boots Cat Food



adds the PLUS

A velvet, handsomer pet is your reward for scientific feeding

UNCONDITIONALLY GUARANTEED!



Sensational offer: Three months of good wear or three new pairs. They look like a million, they feel great on your feet. You'll love their tasteful quality.

55¢ a pair

Guaranteed Mendproof Mens' Socks

AT DEALERS EVERYWHERE

MENDPROOF, 350 Fifth Ave., New York



Italian Balm

best lotion for busy hands

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THE FIRE AT THE FIRE SALE

In vaudeville circles there was once a tired old joke that involved an ambitious merchant who announced his fire sale the day before his store caught fire. However unlikely, this is exactly what has just happened to the Empire Furniture Company in Wilkes-Barre, Pa. One January night, right after the fire sale signs had gone up, a watchman smelled

smoke and turned in an alarm. Upon arrival a fire chief turned in another and in the end it took six Wilkes-Barre companies, plus three from neighboring towns, to put the fire out. But the sale signs, which had been put up after an earlier fire in December, turned out to be useless. This time there was \$195,000 damage and next to nothing left.

There's No Substitute for **OLD GRAND-DAD**



That's why it's . . . Head of the Bourbon Family
As fine a Kentucky
Straight Bourbon as money can buy!



The Old Grand-Dad Distillery Company, Frankfort, Kentucky

There must be a reason why More People Smoke Camels than any other cigarette!

R. J. Rerold's Tob. Co., Winston-Salem, N. C.

Why did you change to Camels, Rise Stevens?



"WHEN I TRIED CAMELS FOR 30 DAYS, I KNEW CAMELS WERE FOR ME. THEY'RE DELIGHTFULLY MILD AND I LOVE THEIR TASTE EVERY TIME I LIGHT UP!"

Rise Stevens

LOVELY STAR OF THE
METROPOLITAN OPERA

There's a simple and enjoyable way to find out the reason why Camels are far and away America's most popular cigarette.

Make your own 30-day Camel mildness test. Smoke only Camels for 30 days and see how much you enjoy your first Camel — and how you *keep on enjoying* Camels! Camel's exclusive blend gives you a flavor no other cigarette has, a flavor that doesn't tire your taste. And, pack after pack, you'll find Camels cool, mild and delightful!

Find the reason for yourself —
test Camels for 30 days

